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HYDROLOGIC AND CLIMATOLOGIC DATA

1965

SALT LAKE COUNTY, UTAH

by

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Introduction

An investigation of the water resources of Salt Lake County, Utah, was undertaken by the Water Resources Division of the U.S. Geological Survey in July 1963. This investigation is a cooperative project financed equally by the State of Utah and the Federal Government in accordance with an agreement between the State Engineer and the Geological Survey. The Utah Water and Power Board, Utah Fish and Game Commission, Salt Lake County Water Conservancy District, Metropolitan Water District of Salt Lake City, Salt Lake County, Kennecott Copper Corporation, Utah Power and Light Company, Salt Lake City Chamber of Commerce, and the Central Utah Water Conservancy District contributed funds to the State Engineer's office toward support of the project.

The investigation encompasses the collection and interpretation of a large variety of climatologic, hydrologic, and geologic data in and near Salt Lake County. Utah Basic-Data Release No. 11 contains data collected through 1964. This release contains climatologic and surface-water data for the 1965 water year (October 1964 to September 1965) and ground-water data collected during the 1965 calendar year. Similar annual releases will contain data collected during the remainder of the investigation, and interpretive reports will be prepared as the investigation proceeds. Organizations that furnished data are acknowledged in station descriptions and footnotes to tables.

In addition to Utah Basic-Data Release No. 11 and the U.S. Geological Survey Water-Supply Papers containing previously published data that are noted in the heading of each table or records-available section of station descriptions, the following reports contain data and information on the water resources of Salt Lake County:

Arnow, Ted, and others, 1964, Ground-water conditions in Utah, spring of 1964: Utah Water and Power Board Coop. Inves. Rept. 2, 104 p.

_____1966, Ground-water conditions in Utah, spring of 1965: Utah Water and Power Board Coop. Inves. Rept. 3, 99 p.

Berger Associates, 1964, Future requirements for water, reservoirs, and aqueducts in the Salt Lake metropolitan area: Metropolitan Water District of Salt Lake City, Utah, 118 p.

Connor, J. G., Mitchell, C. G., and others, 1958, A compilation of chemical-quality data for ground and surface waters in Utah: Utah State Engr. Tech. Pub. 10, 276 p.

Gardner, D. I., (Published annually) Utah Lake and Jordan River distribution: Water Commissioner's Reports to Utah State Engineer.

Lofgren, B. E., 1952, Jordan Valley, Salt Lake County, in Status of development of selected ground-water basins in Utah: Utah State Engr. Tech. Pub. 7, p. 76-83.

Marine, I. W., and Price, Don, 1963, Selected hydrologic data, Jordan Valley, Salt Lake County, Utah: U.S. Geol. Survey open-file rept. (duplicated as Utah Basic-Data Report No. 4) 30 p.

_____1964, Geology and ground-water resources of Jordan Valley, Utah: Utah Geol. and Mineralog. Survey Water Resources Bull. 7, 68 p.

Richardson, G. B., 1906, Underground water in the valleys of Utah Lake and Jordan River, Utah: U.S. Geol. Survey Water-Supply Paper 157, 81 p.

Taylor, G. H., and Leggette, R. M., 1949, Ground water in the Jordan Valley, Utah: U.S. Geol. Survey Water-Supply Paper 1029, 357 p.

Ward, J. A., Skoubye, C. M., and Ward, G. A., 1957, Flow characteristics and chemical quality of the Jordan River, Salt Lake County, Utah, for the year 1957: Utah State Water Pollution Control Board, 51 p.

Station-numbering system

Climatologic stations listed in this report have been assigned numbers preceded by the letter "W" (table 1). The station sites are plotted on plate 1 with the individual station number near each location.

Records of streamflow at gaging stations are listed in downstream order and are keyed by station or site numbers to plate 1. Station numbers not followed by a letter are the station identification numbers adopted by the Water Resources Division of the U.S. Geological Survey for regular streamflow stations. Chemical-quality and sediment stations operated at the streamflow gaging stations are assigned the same number. For this release, station numbers followed by a letter have been adopted for canals and miscellaneous streamsites. These numbers are used as site identification numbers on plate 1 and in the tables of surface-water, chemical-quality, and sediment data.

Station locations are described by reference to well known landmarks, the cadastral land-survey system, or the Salt Lake County coordinate system, which indicates direction and distance from the intersection of Main and South Temple Streets in Salt Lake City. Twenty-seventh East Street, for example, is 27 blocks east of Main Street and may be designated as 2700 East. Similarly, 21st South Street is 21 blocks south of South Temple Street and may be designated 2100 South. However, west and north of Main and South Temple Streets the hundred West and North designations are 100 higher than the street names indicate due to the inclusion of West Temple Street between Main Street and 1st West Street and North Temple Street between South Temple Street and 1st North Street.

Well-numbering system

The system of numbering wells in Utah is based on the cadastral land-survey system of the U.S. Government. The well number, in addition to designating the well, locates its position to the nearest 10-acre tract in the land net. By this system the State is divided into four quadrants by the Salt Lake base line and meridian, and these quadrants are designated by the uppercase letters A, B, C, and D, thus: A, for the northeast quadrant; B, for the northwest; C, for the southwest; and D, for the southeast quadrant. Numbers designating the township and range, respectively, follow the quadrant letter, and the three are enclosed in parentheses. The number after the parentheses designates the section, and the lowercase letters give the location of the well within the section. The first letter indicates the quarter section, which is generally a tract of 160 acres, the second letter indicates the 40-acre tract, and the third letter indicates the 10-acre tract. The numbers that follow the letters indicate the serial number of the well within the 10-acre tract. Thus, well (C-2-1)24adc-1, in Salt Lake County, is in the SW¼SE¼NE¼ sec. 24, T. 2 S., R. 1 W., and is the first well constructed or visited in that tract. (See fig. 1.)

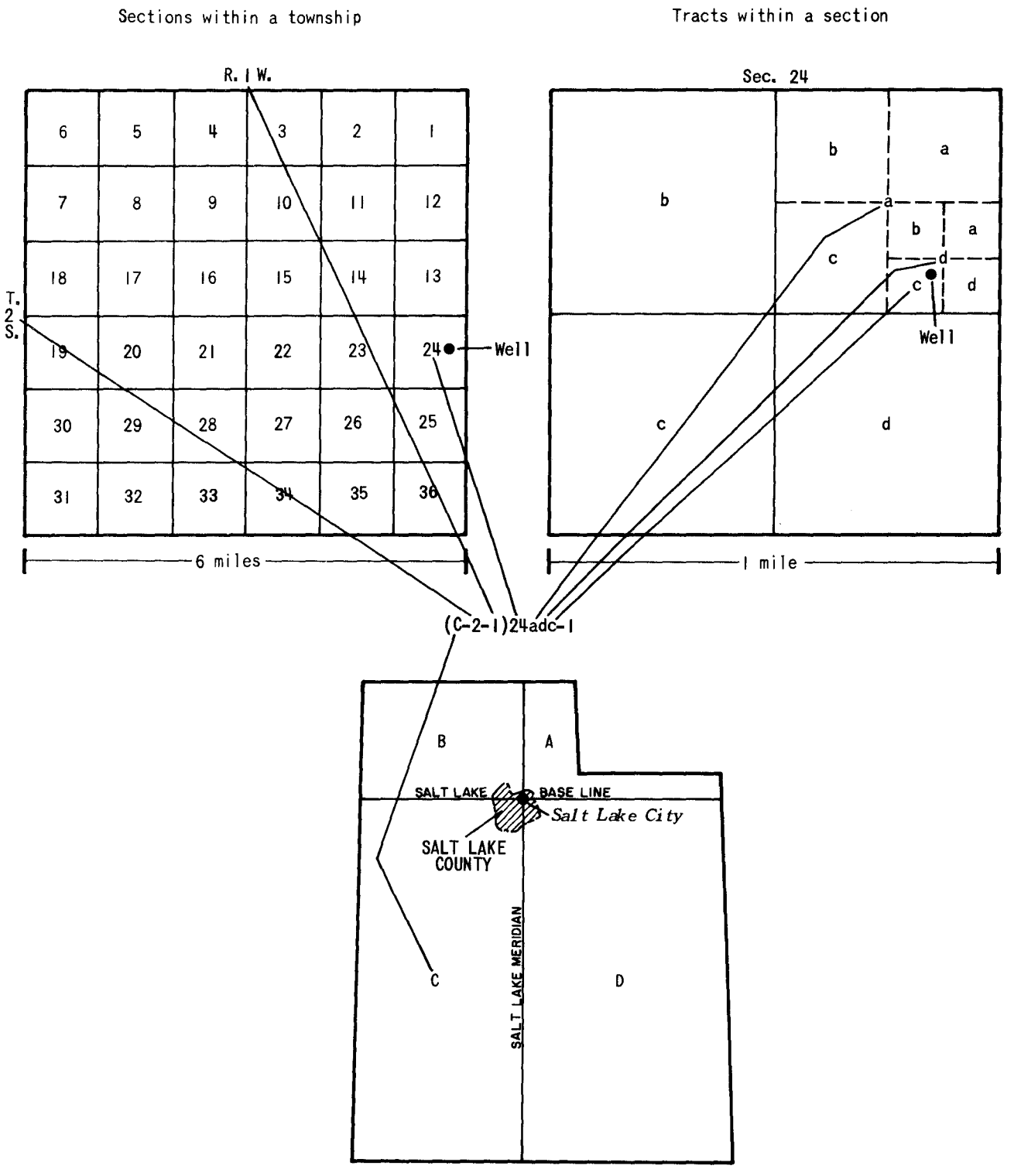


Figure 1.—Well-numbering system.

Table 1.--Climatologic stations

Types of data.--D, daily values; M, monthly values; records available in publications or files of the U.S. Weather Bureau or the U.S. Geological Survey.

Station	Map number	WB index number	Latitude		Longitude		Section	Township	Range	Elevation	Types of data					
			°	'	°	'					Air temperature	Precipitation	Evaporation	Relative humidity	Solar radiation	Soil temperature
Alta	W-1	0072	40	36	111	38	5	3 S	3 E	8,760	D	D				
Antelope Island	W-2	0194	40	55	112	10	10	2 N	3 W	4,225	D	D				
A S R Research Lab	W-3	0302	40	42	111	55	35	1 S	1 W	4,246	D	D	D	D		D
Barneys Canyon	W-4		40	36	112	08	36	2 S	3 W	6,400		M				
Bingham Canyon	W-5	0699	40	32	112	09	26	3 S	3 W	6,280	D	D				
Butlerville	W-6		40	37	111	48	26	2 S	1 E	5,060		D				
Camp Williams	W-7		40	27	111	56	22	4 S	1 W	4,600	D	D				
City Creek Water Plant	W-8	1446	40	49	111	50	15	1 N	1 E	5,335		D				
Cottonwood Weir	W-9	1759	40	37	111	47	25	2 S	1 E	4,961	D	D				
Crescent	W-10		40	34	111	54	13	3 S	1 W	4,380		D				
Draper	W-11	2233	40	32	111	50	28	3 S	1 E	4,630	D	D			D	
Farmington Bay Refuge	W-12		40	57	111	55	35	3 N	1 W	4,210	D	D	D	D		
Garfield	W-13	3097	40	43	112	12	21	1 S	3 W	4,310	D	D				
Herriman[a]	W-14	3867	40	31	112	02	35	3 S	2 W	5,000	D	D	D	D		
Holladay	W-15		40	41	111	49	3	2 S	1 E	4,630		D				
Hog Hollow	W-16		40	29	111	50	10	4 S	1 E	5,860		M				
Hogum Fork	W-17		40	34	111	43	9	3 S	2 E	6,450		M				
Kearns	W-18		40	40	112	00	1	2 S	2 W	4,460	D	D	D	D		
Lambs Canyon	W-19	4903	40	43	111	39	19	1 S	3 E	6,840		M				
Little Cottonwood Water Plant	W-20		40	35	111	48	2	3 S	1 E	5,040		D				
Lower Mill Creek	W-21	5229	40	42	111	47	26	1 S	1 E	4,960		M				
Mill Creek Canyon	W-22		40	42	111	40	25	1 S	2 E	6,880		M				
Midvale	W-23	5610	40	36	111	53	26	2 S	1 W	4,342		D				
Mountain Dell Dam	W-24	5892	40	45	111	43	9	1 S	2 E	5,500	D	D				
Parleys Summit	W-25	6669	40	46	111	37	4	1 S	3 E	7,590		M				
Red Butte No. 1	W-26	7185	40	46	111	50	3	1 S	1 E	4,860		M				
Red Butte No. 2	W-27		40	47	111	48	5	1 N	1 E	5,425		M				
Red Butte No. 4	W-28	7200	40	48	111	46	19	1 N	2 E	6,200		M				
Red Butte No. 6	W-29	7210	40	49	111	45	17	1 N	2 E	7,180		M				
Riverton[b]	W-30	7343	40	31	111	59	31	3 S	1 W	4,655	D	D	D	D	D	
Saltair Salt Plant	W-31	7578	40	46	112	06	5	1 S	2 W	4,210	D	D	D			
Salt Lake City WB AP	W-32	7598	40	46	111	58	33	1 N	1 W	4,220	D	D			D	
Silver Lake Brighton	W-33	7846	40	36	111	35	36	2 S	3 E	8,700	D	D				
Sixty-second South pump	W-34	7852	40	38	111	50	22	2 S	1 E	4,440	D	D	D	D		
West Jordan	W-35		40	36	111	58	32	2 S	1 W	4,530		D				
Cottonwood Meadows[c]	W-36		40	40	111	50	9	2 S	1 E	4,360		D				
Foothill P.O.[d]	W-37		40	44	111	50	16	1 S	1 E	4,560		D				

a Discontinued September 1965.
b Established August 1965.
c Established September 1965.
d Established July 1965.

Table 2.--Monthly precipitation, in inches

Water year October 1964 to September 1965

Station	Map No.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water Year
Alta	W-1	-	9.67	17.04	16.44	4.78	3.61	7.93	-	-	-	-	-	-
Antelope Island	W-2	0.68	2.04	3.95	1.38	.64	0	2.03	2.23	1.43	.26	1.45	1.76	17.85
A S R Research Lab	W-3	0	1.38	e 4.10	1.44	.69	.20	1.56	1.82	1.54	1.31	2.44	2.97	19.45
Barneys Canyon	W-4	.35	2.95	7.75	2.50	1.90	1.45	2.30	c 2.20	2.25	2.20	3.25	3.15	32.25
Bingham Canyon	W-5	.56	1.87	6.50	3.06	1.88	.92	2.69	2.65	2.10	1.25	4.50	3.14	31.12
Butlerville	W-6	.46	2.09	5.63	2.74	1.48	.65	2.63	2.35	1.61	1.52	2.67	4.31	28.14
Camp Williams	W-7	.25	1.23	3.76	1.52	.70	.82	2.07	1.00	.51	1.51	2.19	2.09	17.65
City Creek Water Plant	W-8	.87	3.33	e 6.48	4.66	1.92	.56	4.56	3.45	1.38	2.52	2.64	3.51	35.88
Cottonwood Weir	W-9	.55	2.23	5.77	2.48	1.62	.69	2.17	2.01	.75	1.42	3.89	5.11	28.69
Crescent	W-10	.19	1.02	3.63	1.38	.65	.61	1.64	1.98	1.48	2.19	2.82	4.18	21.77
Draper	W-11	-	-	4.23	1.44	.30	.04	2.97	1.82	.88	.75	e 2.53	2.87	-
Farmington Bay Refuge	W-12	1.01	1.96	3.66	2.26	.84	.16	2.55	2.64	1.46	1.23	2.45	2.14	22.36
Garfield	W-13	.68	1.90	e 3.20	1.01	.81	.17	1.27	2.57	1.80	.69	1.43	3.33	18.86
Herriman	W-14	.35	e .40	2.89	e 1.07	e 1.14	.76	1.32	.37	.16	.95	2.17	3.24	14.82
Holladay	W-15	.43	1.73	5.16	2.84	1.03	.27	2.25	2.15	1.27	2.86	2.94	3.05	25.98
Hog Hollow	W-16	-	-	4.75	2.95	1.85	1.20	5.45	1.00	1.05	1.50	2.24	2.43	-
Hogum Fork	W-17	-	3.67	c10.25	4.35	2.80	1.55	5.15	3.12	2.13	3.08	3.19	4.76	-
Kearns	W-18	.27	1.05	3.49	1.41	1.03	.28	1.10	2.41	2.06	1.22	1.99	2.28	18.59
Lambs Canyon	W-19	1.30	5.85	9.50	12.40	2.80	2.10	4.10	2.80	7.75	2.00	1.80	3.10	55.50
Little Cottonwood Water Plant	W-20	.63	2.01	4.30	2.43	.91	.52	2.87	2.49	1.02	1.67	2.78	4.30	25.93
Lower Mill Creek	W-21	.50	2.85	6.05	3.30	1.33	.70	2.62	2.10	1.55	3.70	3.30	3.30	31.30
Mill Creek Canyon	W-22	c .83	7.25	c12.10	7.55	2.65	1.95	4.05	3.45	2.45	1.97	2.40	4.72	51.37
Midvale	W-23	.22	1.34	3.77	1.96	.82	.56	1.82	2.63	e .45	e 1.98	2.90	1.47	19.92
Mountain Dell Dam	W-24	.95	4.04	8.68	4.52	1.22	.73	2.29	2.01	1.50	3.15	2.81	2.98	34.88
Parleys Summit	W-25	.54	4.95	10.83	7.30	2.30	1.75	4.55	3.58	2.23	3.25	2.80	3.55	47.63
Red Butte No. 1	W-26	.65	2.05	5.15	3.15	1.05	.45	2.30	2.05	1.57	2.08	2.00	2.35	24.85
Red Butte No. 2	W-27	.70	2.60	6.25	3.92	1.33	.60	3.72	2.85	1.90	2.44	2.35	2.75	31.41
Red Butte No. 4	W-28	1.35	3.40	8.20	5.20	1.75	.80	4.90	3.70	2.20	3.45	3.55	3.85	42.35
Red Butte No. 6	W-29	1.50	3.85	9.25	5.85	1.95	.90	5.50	4.15	2.45	-	-	-	-
Riverton	W-30	-	-	-	-	-	-	-	-	-	-	2.17	3.24	-
Saltair Salt Plant	W-31	.40	1.03	2.16	1.10	.43	.06	1.47	2.33	1.44	.66	1.88	2.39	15.35
Salt Lake City WB AP	W-32	.45	1.42	3.82	2.13	1.13	.14	2.30	2.02	1.87	1.50	2.08	1.93	20.79
Silver Lake Brighton	W-33	.45	e 7.89	12.95	5.98	e 2.82	2.50	5.37	2.39	e 2.46	2.65	4.29	4.94	54.69
Sixty-second South pump	W-34	0	2.06	3.83	2.54	2.40	.34	1.87	2.58	.46	2.24	3.49	3.70	25.51
West Jordan	W-35	.27	1.05	3.67	1.05	.64	.62	1.39	2.11	.93	1.45	2.18	3.00	18.36
Foothill P.O.	W-37	-	-	-	-	-	-	-	-	-	1.47	2.77	2.69	-

c Corrected.
e Partly estimated.

Table 3.--Monthly air temperature, in degrees Fahrenheit

Data.--Maximum (minimum) is the average of the daily maximum (minimum) values.

Water year October 1964 to September 1965

Station	Map No.	Data	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water Year
Alta	W-1	Max.	-	-	-	31.2	28.6	28.5	38.7	-	-	-	-	-	
		Min.	-	-	-	15.2	12.1	10.8	23.0	-	-	-	-	-	
		Mean	-	24.9	19.9	23.2	20.4	19.7	30.9	-	-	-	-	-	-
Antelope Island	W-2	Max.	72.4	48.8	-	40.1	45.3	49.9	63.7	70.3	82.3	93.8	88.9	75.6	
		Min.	31.5	23.4	-	18.1	19.6	22.2	36.9	39.9	48.3	58.8	55.3	42.1	
		Mean	52.0	36.1	31.0	29.1	32.5	36.1	50.3	55.1	65.3	76.3	72.1	59.9	49.6
A S R Research Lab	W-3	Max.	72.0	50.0	44.0	39.0	43.0	50.0	63.7	67.8	78.3	87.6	83.8	70.7	
		Min.	35.0	27.0	26.0	23.0	20.0	21.7	39.1	40.0	48.7	55.5	54.4	43.2	
		Mean	54.0	38.0	35.0	31.0	32.0	35.9	51.4	53.9	63.5	71.6	69.1	57.0	48.5
Bingham Canyon	W-5	Max.	66.0	43.0	38.4	37.6	40.5	43.5	-	-	72.4	-	78.6	65.8	
		Min.	45.0	28.3	22.4	23.6	20.6	22.1	-	-	47.5	-	56.7	43.9	
		Mean	55.5	35.7	30.4	30.6	30.6	32.8	46.2	50.6	60.0	71.2	67.7	54.9	47.2
Camp Williams	W-7	Max.	70.1	47.7	39.0	37.9	43.3	49.0	61.1	67.3	79.3	89.5	83.4	69.5	
		Min.	41.1	28.9	24.4	24.7	23.5	25.1	38.5	42.4	50.3	60.1	56.5	44.3	
		Mean	55.7	38.3	31.7	31.3	33.4	37.0	49.8	54.8	64.8	74.8	69.9	56.9	49.9
Cottonwood Weir	W-9	Max.	-	49.4	43.9	42.0	47.3	-	-	-	79.0	90.5	87.1	-	
		Min.	-	29.5	27.7	27.3	26.5	-	-	-	55.5	66.5	62.1	-	
		Mean	60.1	39.5	35.8	34.7	36.9	40.7	51.9	56.5	67.3	78.5	74.6	60.9	53.1
Draper	W-11	Max.	-	-	42.4	39.4	43.9	50.3	-	-	-	-	82.8	70.7	
		Min.	-	-	19.7	22.8	17.6	21.4	-	37.2	44.8	-	52.3	41.5	
		Mean	-	-	31.1	31.1	30.8	35.9	51.1	-	-	-	67.6	56.1	-
Farmington Bay Refuge	W-12	Max.	70.0	46.8	41.4	38.3	45.7	47.7	60.6	65.7	77.3	89.0	84.3	68.5	
		Min.	36.0	29.5	27.2	26.5	22.9	25.5	40.1	42.5	49.3	59.9	56.6	42.2	
		Mean	53.0	38.1	34.3	32.4	34.3	36.6	50.4	54.1	63.3	74.4	70.4	55.4	49.7
Garfield	W-13	Max.	66.4	47.6	44.5	40.2	42.3	47.4	60.8	65.1	77.1	87.5	83.8	68.9	
		Min.	44.9	32.2	28.5	28.2	26.1	30.3	43.3	47.6	56.7	68.5	64.0	50.4	
		Mean	55.7	39.9	36.5	34.2	34.2	38.9	52.1	56.4	66.9	78.0	73.9	59.7	52.2
Herriman	W-14	Max.	71.5	49.0	41.0	40.6	43.9	49.9	-	67.7	78.4	89.7	83.9	70.1	
		Min.	39.6	27.1	21.9	21.8	21.2	23.6	-	39.9	48.8	58.3	54.8	42.6	
		Mean	55.6	38.1	31.5	31.2	32.6	36.8	49.0	53.8	63.6	74.0	69.4	56.4	44.7
Kearns	W-18	Max.	70.7	48.0	41.2	38.8	43.8	50.3	62.0	66.6	77.4	89.2	85.0	70.3	
		Min.	40.2	28.7	25.9	24.4	23.0	25.0	34.7	40.8	50.5	60.8	57.5	45.7	
		Mean	55.5	38.4	33.5	31.6	33.4	37.6	50.9	53.7	64.0	75.0	71.3	58.0	50.2
Mountain Dell Dam	W-24	Max.	70.7	46.7	40.1	40.8	42.0	48.1	59.8	65.9	77.5	85.6	80.8	69.6	
		Min.	30.1	19.9	15.4	17.2	12.7	16.7	31.6	32.5	40.6	47.7	45.6	36.2	
		Mean	50.4	33.3	27.8	29.0	27.4	32.4	45.7	49.2	59.1	66.7	63.2	52.9	44.8
Saltair Salt Plant	W-31	Max.	66.3	48.2	44.0	-	42.5	46.8	61.6	63.8	76.7	87.7	83.3	67.0	
		Min.	38.8	28.4	26.8	-	23.0	25.9	42.3	44.2	53.6	63.7	60.0	44.9	
		Mean	52.6	38.3	35.4	-	32.8	36.4	52.0	54.0	65.2	75.7	71.7	56.0	-
Salt Lake City WB AP	W-32	Max.	69.8	47.8	41.1	38.5	43.7	49.4	62.9	67.9	79.9	89.9	85.5	70.8	
		Min.	36.1	27.7	25.5	23.5	22.3	24.1	39.1	41.5	49.7	60.0	56.3	44.2	
		Mean	53.0	37.8	33.3	31.0	33.0	36.8	51.0	54.7	64.8	75.0	70.9	57.5	49.9
Silver Lake Brighton	W-33	Max.	58.5	37.6	30.1	33.6	33.1	34.8	45.8	50.8	60.6	69.6	67.0	54.4	
		Min.	27.4	14.1	10.9	11.3	5.7	5.5	23.1	25.7	34.5	43.7	40.4	30.0	
		Mean	43.0	25.9	20.5	22.5	19.4	20.2	34.5	38.3	47.6	56.7	53.7	42.2	35.4
Sixty-second South pump	W-34	Max.	71.8	49.1	-	41.6	48.6	52.0	69.8	72.5	83.6	-	-	70.8	
		Min.	35.8	24.9	-	24.8	20.4	19.4	37.4	37.7	41.3	53.5	53.3	41.7	
		Mean	53.8	37.0	-	33.2	34.5	35.7	58.5	55.1	62.4	-	-	56.3	-

Table 4.--Monthly pan evaporation and wind movement

Data.--Evaporation given in inches; wind movement, in miles per month. The maximum (minimum) is the average of the daily maximum (minimum) water temperatures in pan, in degrees Fahrenheit.

Water year October 1964 to September 1965

Station	Map No.	Data	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
A S R Research Lab	W-3	Evap.	2.95	-	-	-	-	-	5.10	6.02	7.08	7.97	6.24	3.76
		Wind	603	1,013	1,950	1,352	1,278	1,512	2,230	1,063	821	831	686	744
		Max.	73.6	-	-	-	-	-	65.3	74.8	82.1	90.0	85.3	69.5
		Min.	40.8	-	-	-	-	-	41.8	48.3	55.0	61.6	60.1	48.8
Farmington Bay Refuge	W-12	Evap.	e 4.99	-	-	-	-	-	-	6.02	8.31	10.98	9.26	5.57
		Wind	936	1,583	2,659	1,618	1,259	1,650	2,785	1,244	1,433	1,571	1,233	1,222
		Max.	-	-	-	-	-	-	-	-	79.5	86.4	84.8	68.9
		Min.	-	-	-	-	-	-	-	-	54.5	61.5	59.4	47.5
Herriman	W-14	Evap.	-	-	-	-	-	-	-	-	-	8.82	7.98	5.26
		Wind	567	-	-	-	-	-	-	-	-	1,166	1,041	1,381
		Max.	-	-	-	-	-	-	-	-	-	88.7	85.7	70.9
		Min.	-	-	-	-	-	-	-	-	-	61.5	60.2	47.5
Kearns	W-18	Evap.	5.52	-	-	-	-	-	6.21	7.55	10.27	12.26	10.16	6.96
		Wind	1,642	2,368	3,728	3,027	2,545	2,178	3,743	2,583	2,686	2,687	2,379	2,555
		Max.	64.4	-	-	-	-	-	64.0	72.2	80.0	86.5	82.8	69.8
		Min.	44.5	-	-	-	-	-	42.1	-	-	-	58.6	50.1
Saltair Salt Plant	W-31	Evap.	5.36	-	-	-	-	-	7.64	8.73	10.51	14.46	11.54	7.18
		Wind	2,287	3,574	-	-	-	-	5,317	4,154	3,845	4,076	3,688	3,340
		Max.	65.1	-	-	-	-	-	-	68.8	77.8	85.5	83.4	69.3
		Min.	40.9	-	-	-	-	-	-	45.0	53.5	60.1	59.8	45.8
Sixty-second South pump	W-34	Evap.	-	-	-	-	-	-	-	-	-	7.14	7.89	3.71
		Wind	-	-	-	-	-	-	1,120	1,067	677	665	341	364
		Max.	-	-	-	-	-	-	-	-	-	-	93.1	79.4
		Min.	-	-	-	-	-	-	-	-	-	-	66.2	53.9

e Partly estimated.

Table 5.--Records of selected wells

Well number.--See text for description of numbering system.

Casing.--Finish: O, open end; P, perforated, upper and lower limits of perforations given in feet below the land surface if known and questioned (?) if extent of perforation is unknown; S, screen, length of screen given in feet if known; w, walled.

Altitude of land-surface datum.--Surveyed altitudes are given in feet and tenths; altitudes interpolated from topographic maps are given in feet.

Water level.--Measured distances to water levels are given in feet and tenths; reported and estimated distances are given in feet.

Method of lift.--C, centrifugal pump; F, flowing well; J, jet pump; N, no pump and well does not flow; S, submersible turbine pump; T, turbine pump.

Yield (gpm, gallons per minute).--F, natural flow; P, pumped; e, estimated; m, measured; r, reported.

Principal use of water or well in 1965.--D, dewatering; H, domestic; I, irrigation; N, industrial; O, water-level observation; P, public supply; S, stock; U, unused.

Other data available.--C, chemical analyses (table 9); D, drillers' logs (table 7); J, gamma-ray, temperature, and fluid resistivity logs are in files of the U.S. Geol. Survey; K, specific conductance (table 10); R, radiochemical analyses (table 11); W, water-level measurements (table 6). Records of other wells are contained in Utah Basic-Data Releases 4 and 11, and Water-Supply Paper 1029.

Well number	Owner or user	Year drilled	Depth of well (feet)	Casing			Altitude of land-surface datum (feet)	Water level		Method of lift	Yield		Use of water in 1965	Temperature (°F)	Other data available
				Diameter (inches)	Depth (feet)	Finish		Above (+) or below (-) land-surface datum (feet)	Date of measurement		Rate (gpm)	Date of measurement			
(A-1-1)															
31ccc-2	Church of Jesus Christ of Latter-day Saints	1955	390	20	390	P160-388	4,335	-106.8	5-17-65	N	3,750Pm	5-26-65	U	56	J,R
31ccc-4	do	1965	705	20	636	P415-592	4,335	-107.0	5-17-65	N	3,200Pm	5-17-65	U	57	D,J,R
(A-1-2)															
16dac-1	B. Shipler	1961	196	4	196	P140-196	6,820	-24.6	9-21-65	J	-	-	H	45	C,D
27bdd-3	K. E. Struth	1963	405	4	322	P 40-300	5,885	-	-	N	-	-	U	54	C,D
27bdd-4	do	1963	120	6	120	P 20-120	5,885			J	-	-	H	52	C,J
31ddd-1	F. J. Meik	1964	185	8	185	P 85-185	5,380	-29.0	7-20-65	N	-	-	H	-	J,W
32dad-2	E. C. Parker	1962	65	6	65	P 47 63	5,520	-19.4	7-14-65	J	-	-	H	-	C,D,J
33aaa-2	A. Roberts and G. Stromness	-	135	4	135	P 60 135	-	-19.2	6-25-65	J	-	-	H	47	C,W
33acb-2	J. Dudley	-	120	-	-	-	5,680	-22.2	6-25-65	J	-	-	H	-	W
33caa-2	S. A. Cott	-	90	-	-	-	5,620	-20.0	6-25-65	J	-	-	H	-	W
33cba-3	K. C. Richards	1958	76	6	76	P 61-76	5,580	-23.8	6-25-65	N	-	-	U	-	D,J,W
(B-1-1)															
16ccc-1	C. F. Gillmore	1952	240	2	240	O	4,217	+1.5	5-26-65	F	1.2Fm	5-26-65	S	60	C,D,K
19baa-2	do	1900	-	2	-	O	4,219.9	+1.8	9- 8-65	F	.4Fm	9- 8-65	S	61	K
19baa-3	do	1900	490	2	-	O	4,219.4	+5.4	2-18-65	F	2.7Fm	2-18-65	S	65	K
19baa-5	do	1900	645	2	-	O	4,219.8	+10.3	9- 8-65	F	1.6Fm	9- 8-65	S	68	K
19bab-1	do	1900	450	2	450	O	4,220.2	+14.9	2-18-65	F	20Fm	2-18-65	S	76	C,K
20bab-1	Salt Lake City	1960	274	2	260	O	4,217	+3.5	2-18-65	F	.5Fm	2-18-65	U	60	C,K
23bdd-1	do	1965	30	12	20	P 0-30	4,210	-	-	C	100Pe	11-10-65	D	87	C
23bdd-2	do	1965	30	12	20	P 0-30	4,210	-	-	C	75Pe	11-10-65	D	64	C
(B-1-2)															
2dac-1	R. L. Irvine	1940	440	2	440	O	4,212	+15.3	9-10-65	F	.4Fm	9-10-65	H	68	K
7ccc-1	S. T. Gillmore	1959	389	2	379	O	4,210	+9.7	9- 2-65	F	2.9Fm	9- 2-65	S	62	C,D,K,W
7dcb-1	C. F. Gillmore	1937	735	2	480	O	4,210	+8.2	9- 2-65	F	4.1Fm	9- 2-65	S	62	C
11dca-4	Harrison Duck Club	1964	607	4	508	S508-513	4,214	+8.3	9- 7-65	F	3.0Fm	9- 7-65	H	66	C,D,K
13cca-1	do	-	-	2	-	-	4,214	+8.4	9- 7-65	F	9.1Fm	9- 7-65	S	66	K
15daa-1	C. F. Gillmore	-	-	2	-	-	4,213	+2.6	9-10-65	F	1.0Fm	9-10-65	S	61	K
19aca-1	E. J. Jeremy	1920	450	2	450	O	4,210	+11.2	9- 3-65	F	11.5Fm	9- 3-65	S	63	C,K
22cdb-1	C. F. and E. L. Gillmore	-	-	2	-	-	4,220.4	(+)	-	F	2Fe	9- 3-65	S	60	K
23bbd-1	do	-	-	2	-	-	4,217	+2.7	9- 9-65	F	1.5Fm	9- 9-65	S	61	C,K
25cda-1	C. F. Gillmore	-	-	2	-	-	4,224	(+)	8-31-64	F	1Fe	8-31-64	S	77	K
25cda-5	do	-	-	2	-	-	4,224	+3.2	9- 2-65	F	1.2Fm	9- 2-65	S	78	C,K
25cdd-1	do	-	-	2	-	-	4,224	+2.9	9- 3-65	F	.3Fm	9- 3-65	S	68	K
28cad-1	E. J. Jeremy	-	-	2	-	-	4,222	+12.9	9- 2-65	F	.1Fm	9- 2-65	S	58	C,K
29daa-1	Bonneville-On-The-Hill, Inc.	1920	420	3	420	O	4,217	(+)	9- 3-65	F	4Fe	9- 3-65	S	67	K
29daa-2	do	1920	456	3	420	O	4,217	+6.5	9- 3-65	F	2.2Fm	9- 3-65	S	66	J,K
30abc-1	E. J. Jeremy	before 1920	450	2	450	O	4,215	+7.9	9- 3-65	F	7.3Fm	9- 3-65	S	64	C,K
31aad-1	do	1920	400	2	400	O	4,220	+10.6	9- 2-65	F	10Fm	9- 2-65	S	63	K
33cca-1	Bonneville-On-The-Hill, Inc.	1943	449	2	449	O	4,217	+13.0	2-18-65	F	20Fm	2-18-65	S	66	C,J,K
(B-1-3)															
24bdd-1	Morton Salt Co.	1956	502	10	-	-	4,202	+10.8	9- 3-65	F	27Fm	9- 3-65	S	67	J,K
(C-1-1)															
20bdd-1	Granger-Hunter Improvement Dist.	1965	916	16	916	P607-915	4,245	+9.6	6-23-65	T	1,400Pm	4- 8-65	P	74	C,D,J
24bbd-2	South Salt Lake City	1964	772	16	772	P484-753	4,230	+6	9- -64	T	420Pm	6- 8-65	P	61	C,D,J

Table 5.--Records of selected wells--Continued

Well number	Owner or user	Year drilled	Depth of well (feet)	Casing: Diameter (inches)	Casing: Depth (feet)	Casing: Finish	Altitude of land-surface datum (feet)	Water level: Above (+) or below (-) land-surface datum (feet)	Water level: Date of measurement	Method of lift	Yield: Rate (gpm)	Yield: Date of measurement	Use of water in 1965	Temperature (°F)	Other data available
(C-1-1)															
25acb-3	South Salt Lake City	1954	967	12	967	P700-963	4,240	(+)	2- -54	T	320Fr	2-10-54	P	-	C,D
30dca-1	West Crest Mobile Village	1965	560	12	560	P 75-200	4,258	+3.7	7- 7-65	F	556Pr	5- -65	P	56	C,D,J
(C-1-2)															
1ccc-1	F. C. Bueter	1959	170	3	170	O	4,233	+2.3	9-16-65	F	1.1Fm	9-16-65	S	60	W
24acd-1	do	-	-	2	-	-	4,250	+2.6	7-14-64	F	3.8Fm	7-14-64	S	63	K
24bdc-1	do	1897	280	2	280	O	4,245	+.1	7-14-64	F	.6Fm	7-14-64	S	64	K
24bdd-1	do	-	-	2	-	-	4,248	+8.3	9- 9-65	F	.5Fm	9- 9-65	S	58	K
24dad-1	Kennecott Copper Corp.	1940	204	3	204	-	4,248	+6.2	9- 9-65	F	9.7Fm	9- 9-65	N	63	K
28aaa-3	J. A. Marshall	-	60	2	60	O	4,238	(+)	9- 7-65	F	-	-	S	52	C
28aaa-4	do	-	50	2	50	O	4,240	(+)	9- 7-65	F	-	-	H	-	C
28aaa-5	do	-	50	2	50	O	4,240	(+)	9- 7-65	F	-	-	H	-	C
28aaa-6	do	1921	35	2	35	O	4,238	(+)	9- 7-65	F	-	-	H	-	C
28aaa-7	do	-	60	4	60	O	4,242	(+)	9- 7-65	F	-	-	H	-	C
32aab-1	E. G. Whitaker	1932	52	48	52	W	4,408	-27.8	9- 7-65	N	-	-	U	61	C
(C-2-1)															
24bcd-1	Salt Lake County Water Conservancy Dist.	1965	1,000	20	1,000	P638-835	4,304.7	-21.1	8-16-65	T	1,865Pr	8- 5-65	P	64	C,D,J,W
36ddb-1	City of Sandy	1963	605	16	605	P200-600	4,402	-82	11-20-63	T	2,200Pr	12- 1-63	P	58	D,J
(C-2-2)															
14bbc-1	C. M. Rushton	1965	402	12	306	P270-287	4,920	-245.6	4- 9-65	T	20Pr	4- 5-65	U	-	D,J,K
(C-3-1)															
5dbb-1	Dee's Inc.	1965	445	10	440	P200-440	4,595	-185.2	2-24-65	N	-	-	U	-	D,J
(C-3-2)															
34dbd-1	Herriman Irrigation Co.	1961	365	12	365	P200-362	5,061	-176.2	2-18-65	S	150Pm	7-12-65	I	49	C,D
(C-4-1)															
6acb-1	E. R. Hamilton	1955	577	16	577	-	4,715	-126	4-14-55	T	190Pm	7-12-65	I	58	C
23dbb-1	Salt Lake Valley Sand and Gravel Co.	1959	262	16	262	P 60-205	4,500.6	-53.6	11- 8-65	T	1,310Pm	11- 8-65	N	60	C
(C-4-2)															
1bbb-1	E. R. Hamilton	1965	540	16	540	P220-524	4,890	-81.7	3-19-65	T	1,856Pr	3- -65	I	58	D,J
(D-1-1)															
1add-1	Salt Lake City	1964	73	6	73	P 50-58	5,210	-27.4	7-14-65	N	-	-	U	-	D,J,W
1ccd-1	E. Fitzgerald	1963	106	6	105	P 65-101	5,100	-55	9-10-63	J	-	-	H	55	C,D
1dbd-4	C. E. Penman	1959	129	6	112	P 95-112	5,120	-95	4- 2-59	J	-	-	H	60	C
1dbd-6	do	1963	152	6	152	P113-150	5,120	-84.8	6-25-65	N	-	-	U	49	D,J,W
4add-1	University of Utah	1956	750	8	750	P361-750	4,820	-349.9	2-24-65	S	120Pm	9-22-58	-	54	W
15bdc-1	A. H. Nielsen	1915	200	8	-	-	4,620	-66.7	9-22-58	S	-	-	I	58	C
19dbc-1	South Salt Lake City	1956	955	16	948	P574-840	4,262	(+)	8- -56	T	1,100Pm	6- 9-65	P	-	C
30acc-7	do	1963	904	16	902	P487-890	4,256	(+)	10-23-53	T	510Pm	6- 7-65	P	62	C,D,K
35cdd-1	County Water System	1965	580	16	580	P382-577	4,790	-370.0	2- 3-65	T	440Pr	1- -65	P	-	D,J
(D-2-1)															
8daa-5	R. Van Otten	1965	435	5	435	P325-415	4,312	-	-	J	-	-	H	-	D,J
14ccd-1	Metropolitan Water Dist.	1959	576	20	576	P267-558	4,640	-207.2	2-17-65	T	2,000Pr	8-20-64	P	-	D
15acc-1	M. A. Keyser	-	106	4	-	-	4,450.0	-86.8	1- 5-65	N	-	-	O	-	J,W
33add-4	West Side Water Co.	1964	635	16	618	P300-618	4,640	258	12-31-65	T	480Pm	7-15-65	P	54	C,D
34cab-2	I. A. Hull	1965	411	8	411	P325-410	4,655	-276.0	5-13-65	-	-	-	I	-	D,J
(D-3-1)															
6bad-1	City of Sandy	1953	442	16	442	P280-410	4,475	-	-	T	1,000Pe	8-17-65	P	-	C
6cba-1	do	-	1,230	12	1,230	P240-420	4,465	-	-	T	800Pe	8-17-65	P	-	C
12adc-1	do	1941	75	12	75	P 26-71	5,290	-	-	T	190Pm	8-17-65	P	48	C
12acd-1	City of Midvale	1941	150	12	150	P 26-148	5,280	-	-	T	280Pm	8-17-65	P	48	C,D
12bdc-1	Cities of Sandy and Midvale, and Union and Jordan Irrigation Co.	1962	136	12	136	P 60-135	5,250	-	-	T	400Pm	8-17-65	P	45	C,D

Table 6.--Water levels in selected observation wells

Water levels.--Water levels in feet below land-surface datum are designated by a minus (-) sign immediately before the first entry in each column in the table, those above land-surface datum are designated similarly by a plus (+) sign.

Records available.--Table 13 in Utah Basic-Data Release No. 11 contains records for previous years, including records for some wells not listed herein. Many of these records are published also in the following Water-Supply Papers:

Year	Number	Year	Number	Year	Number	Year	Number	Year	Number	Year	Number	Year	Number
1936	817	1940	910	1943	990	1946	1075	1949	1029	1951	1195	1954	1325
1937	840	1941	940	1944	1020	1947	1100	1949	1160	1952	1225	1955	1408
1938	845	1942	948	1945	1027	1948	1130	1950	1169	1953	1269	1960	1760
1939	886												

Remarks.--Records of these wells given in table 5 or in Utah Basic-Data Release No. 11, table 12.

Cooperation.--Asterisk (*), measured by the Office of the Utah State Engineer; dagger (†), measured by the Salt Lake City Water Department; all other measurements were made by the U.S. Geological Survey.

Day column.--Eom, end of month.

(A-1-1)31cca-1. Records available 1934-65

Jan.	5, 1965	-145.0†	May	5, 1965	-137.4	Sept.	28, 1965	-133.8†
Feb.	2	148.8†	June	2	136.8†	Nov.	2	132.3†
	19	141.5		29	136.4†		30	131.1†
Mar.	9	140.1†	Aug.	3	135.4†	Dec.	28	130.1†
Apr.	13	138.1†	Sept.	7	135.0			

(A-1-2)31ddd-1. Records available 1965

July	20, 1965	-29.0*	Sept.	20, 1965	-31.1*	Dec.	1, 1965	-32.0*
Aug.	17	30.3*	Oct.	21	31.5*			

(A-1-2)33aaa-2. Records available 1965

June	25, 1965	-19.2*	Aug.	17, 1965	B-22.8*	Oct.	21, 1965	-21.9*
July	14	20.[illegible]*	Sept.	20	24.4*	Dec.	1	22.6*

(A-1-2)33acb-2. Records available 1965

June	25, 1965	-22.2*	Aug.	17, 1965	-24.0*	Oct.	21, 1965	-24.1*
July	14	22.9*	Sept.	20	25.2*			

(A-1-2)33caa-2. Records available 1965

June	25, 1965	-20.0*	Aug.	17, 1965	-22.0*	Oct.	21, 1965	-21.8*
July	14	21.0*	Sept.	20	22.2*	Dec.	1	21.9*

(A-1-2)33cba-3. Records available 1965

June	25, 1965	-23.8*	Aug.	17, 1965	-23.5*	Oct.	21, 1965	-23.6*
July	14	22.2*	Sept.	20	23.3*	Dec.	1	23.6*
	23	23.2*						

(B-1-1)33cda-1. Records available 1935-65

Jan.	11, 1965	+8.6†	Apr.	26, 1965	+9.1	Aug.	12, 1965	+8.2
	15	8.6	May	11	9.1	Sept.	7	8.7
	27	9.6		24	9.2†		28	8.8
Feb.	17	8.6	June	3	8.9	Oct.	14	8.8
	23	8.6†		21	8.6	Nov.	2	9.4
Mar.	11	8.8		28	8.7		30	9.7
Apr.	9	8.9	July	12	8.5	Dec.	6	9.4†
	14	9.2†		27	8.3			

(B-1-1)36abc-1. Records available 1931-65

Jan.	11, 1965	-17.4†	May	24, 1965	-13.9†	Sept.	7, 1965	-11.3†
Feb.	23	13.8†	June	7	15.1†	Oct.	4	9.5†
Mar.	12	12.8†	July	12	13.5†	Nov.	1	8.8†
Apr.	14	11.6†	Aug.	9	10.9†	Dec.	6	6.8†

(B-1-1)36acb-1. Records available 1934-65

Jan.	11, 1965	-21.8†	Aug.	9, 1965	-17.6†	Nov.	1, 1965	-16.8†
Feb.	23	20.6†	Sept.	7	17.6†	Dec.	6	12.7†
Mar.	12	19.4†	Oct.	4	16.1†			

(B-1-2)7ccc-1. Records available 1965

Jan.	11, 1965	B+9.9	May	29, 1965	B+10.0	Sept.	29	B+9.9
Feb.	5	B9.6	June	22	B9.6	Nov.	10	B9.8
Mar.	15	B10.0	July	26	B9.6	Dec.	13	B9.6
May	26	B9.8	Sept.	2	B9.7			

(B-1-2)36baa-1. Records available 1931-33, 1941-53, 1955-65

Jan.	11, 1965	B+11.0	May	11, 1965	B+10.4	Sept.	3, 1965	B+10.4
	27	B11.0	June	3	B10.2		28	B10.8
Feb.	17	B11.0		14	B10.5	Oct.	14	B10.6
Mar.	11	B10.8		28	B10.1	Nov.	10	B12.6
Apr.	6	B10.7	July	13	B10.1	Dec.	13	B10.9
	26	B10.5		27	B10.1		28	B11.3

(C-1-1)9aab-1. Records available 1956-61, 1964-65

Feb.	26, 1965	+5.5	Sept.	10, 1965	B+4.9

(C-1-1)15bdd-11. Highest water level on date, in feet above land surface from recorder graph. Records available 1956-65

1965

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5	9.2	9.6	9.5	9.6	9.8	10.3	8.8	8.9	9.0	9.6	9.6	10.0
10	9.2	9.6	9.7	9.8	9.7	10.4	8.8	-	9.0	9.3	10.1	10.2
15	9.5	9.6	9.6	9.8	9.5	10.1	-	8.7	9.1	9.1	10.2	10.3
20	9.3	9.5	9.6	9.8	9.9	9.6	8.6	8.8	9.2	9.4	10.1	10.2
25	9.2	9.5	9.7	9.6	9.7	9.6	8.8	9.1	9.4	-	10.2	10.5
Eom	9.2	9.4	9.7	9.8	9.7	-	9.0	8.9	9.5	-	10.1	10.6

(C-1-1)18ddd-2. Records available 1957-65

Jan.	11, 1965	B+7.1	June	21, 1965	B+6.3	Sept.	29, 1965	B+7.6
	27	B6.9		28	B6.4	Oct.	15	B8
Feb.	19	B7.0	July	13	B5.8	Nov.	8	B7.7
Mar.	12	B7.0		27	B5.9		30	B8
Apr.	26	B5.5	Aug.	12	B6.0	Dec.	13	B8.1
May	11	B6.1	Sept.	13	B7.3		28	B7.6
	28	B6.5						

(C-1-1)19caa-1. Records available 1964-65

Jan.	11, 1965	+5.5	May	11, 1965	+5.4	Sept.	9, 1965	+7.4
	27	5.3		28	5.8	Oct.	15	7.4
Feb.	23	5.2	June	21	6.1	Nov.	8	B6.1
Mar.	12	5.1		29	6.4		30	6.5
Apr.	5	4.6	July	13	6.1	Dec.	13	6.8
	8	4.0		27	6.6		28	6.6
	26	4.2	Aug.	12	6.5			

(C-1-1)25ccb-2. Records available 1956-65

Feb.	25, 1965	B+15.4			

(C-1-1)33abb-1. Records available 1931, 1935-65

Jan.	15, 1965	+11.5	June	4, 1965	B+8.1	Sept.	16, 1965	+12.7
	30	B11.1		21	B7.7	Oct.	15	B11.8
Feb.	23	B11.2		29	8.9	Nov.	9	B12.9
Mar.	12	B10.3	July	13	B7.8		30	13.7
Apr.	8	B8.9		27	9.1	Dec.	14	14.3
	26	B9.9	Aug.	12	9.5		28	14.1
May	11	9.8						

(C-1-1)35aaa-4. Records available 1931-35, 1956-65

Oct.	19, 1956	B+10.7	Jan.	19, 1960	+12.2	Sept.	2, 1964	B+4.5
Nov.	27	B11.8	May	17	9.6		17	4.7
Jan.	15, 1957	B13.2	Sept.	12	7.3	Oct.	2	4.9
Feb.	13	B13.0	Dec.	15	11.0		30	5.8
Mar.	27	B14.7	Apr.	4, 1961	8.3	Nov.	22	7.9
May	2	B13.7	Dec.	20	8.7	Jan.	17, 1965	9.2
June	10	B10.7	Mar.	14, 1962	10.0		30	9.1
July	22	7.1	Dec.	17	10.9	Feb.	23	B8.9
Aug.	22	8.7	Mar.	1, 1963	10.5	Mar.	19	9.7
Oct.	18	B11.4	Aug.	6	B4.8	Apr.	9	10.2
Dec.	4	B13.5	Oct.	24	B7.5		26	9.2
Mar.	13, 1958	13.1	Dec.	23	9.2	May	13	8.9
Apr.	25	12.8	Jan.	4, 1964	8.8	June	9	B4.6
	28	12.7		21	9.0		25	B4.6
May	22	7.3	Feb.	26	8.7	July	12	B3.6
	27	6.5	Mar.	14	9.3		27	B4.0
June	4	7.3	Apr.	28	10.3	Aug.	10	B3.6
July	23	5.6	May	12	11.0	Sept.	1	B5.1
Sept.	5	7.1		25	B7.3		18	B6.4
Oct.	27	B9.5	June	11	7.0	Oct.	2	7.8
Dec.	17	B11.8		22	8.6		30	B9.3
Mar.	19, 1959	12.9	July	8	B5.9	Nov.	23	9.9
May	22	9.8		22	4.6	Dec.	9	B10.4
July	29	6.2	Aug.	5	4.1		31	B10.1
Oct.	1	10.7		20	4.6			

(C-1-2)1ccc-1. Records available 1965

Sept.	16, 1965	B+2.3	Nov.	8, 1965	B+2.4	Dec.	14, 1965	B+2.3
Oct.	15	B2.4		30	B2.1		28	B2.4

(C-1-2)22bdd-4. Records available 1956-61, 1963-65

June	3, 1965	+5.1	July	1, 1965	+6.8	Sept.	30, 1965	+7.5
	10	5.2	Sept.	8	7.3	Nov.	24	6.4

(C-1-2)22cbb-1. Records available 1931-32, 1934-65

Jan.	11, 1965	B+10.2	May	28, 1965	+8.2	Sept.	16, 1965	+13.1
	27	B9.9	June	21	8.9	Oct.	15	B12.1
Feb.	23	9.4		29	9.8	Nov.	8	11.9
Mar.	12	B8.8	July	13	9.8		30	B8.6
Apr.	9	B7.9		27	B11.5	Dec.	14	B10.3
	26	7.5	Aug.	12	12.0		28	B10.4
May	11	7.8						

(C-2-1)12bac-1. Records available 1931-65

Jan.	4, 1965	+5.3†	May	13, 1965	+5.4	Sept.	18, 1965	+5.2
	17	5.6	June	1	4.1†		27	5.2†
	30	5.6		9	3.2	Oct.	2	5.6
Feb.	1	5.5†		25	3.8		29	5.5†
	24	5.8		30	4.3†		30	5.8
Mar.	8	5.9†	July	12	3.0	Nov.	23	6.5
	19	6.0		27	3.6		29	6.3†
Apr.	5	6.1†	Aug.	2	2.0†	Dec.	9	6.3
	9	6.0		10	3.0		27	6.0†
	26	4.8		30	3.6†		31	6.0
May	3	4.7†	Sept.	1	4.0			

(C-2-1)24adc-1. Records available 1931-65

Jan.	17, 1965	-30.2	Apr.	26, 1965	-31.4	July	27, 1965	-33.4
	29	30.4	May	13	31.3	Aug.	2	33.2
Feb.	23	30.4	June	9	33.3		3	33.2
Mar.	19	30.6		25	33.8		4	33.2
Apr.	7	31.1	July	9	33.8		5	33.2

See footnotes at end of table.

(C-2-1)24adc-1 - Continued

Aug.	10, 1965	-34.1	Sept.	17, 1965	-31.7	Nov. 23, 1965	-29.1
	16	34.5	Oct.	2	30.8	Dec. 16	29.1
Sept.	2	32.8		29	29.5		

(C-2-1)24bcd-1. Records available 1965

Aug.	16, 1965	-21.1	Sept.	7, 1965	-20.0	Sept. 14, 1965	-20.4
Sept.	2	20.5					

(C-2-1)24bcd-1 - Continued. Recorder installed Sept. 14, 1965. Highest water level on date, in feet below land surface from recorder graph.

1965

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5										20.4	20.4	20.4
10										20.3	20.4	20.4
15									20.4	20.2	-	20.4
20									20.3	20.3	20.3	20.4
25									20.3	-	20.3	-
Eom									20.5	20.3	20.4	20.3

(C-3-1)6cac-1. Records available 1964-65

Jan.	15, 1965	-76.7	June	4, 1965	-76.7	Sept. 30, 1965	-76.6
	28	76.6		21	76.7	Oct. 16	76.5
Feb.	24	76.6		29	76.7	Nov. 9	76.5
Mar.	12	76.6	July	13	76.7	30	76.4
Apr.	9	76.6		27	76.7	Dec. 14	76.1
	27	76.7	Sept.	16	76.6	29	76.3
May	11	76.7					

(C-3-1)12ccb-1. Records available 1931-35, 1955-65

Jan.	29, 1965	B+25.0	June	9, 1965	B+24.4	Sept. 17, 1965	B+25.5
Feb.	25	B25.1		25	B24.8	Oct. 2	B26.0
Mar.	19	B24.8	July	9	B24.8	29	B26.3
Apr.	17	B25.0		27	B24.9	Nov. 23	B26.7
	26	B24.8	Aug.	10	B25.0	Dec. 16	B26.6
May	13	B25.1	Sept.	2	B25.3	31	B26.7

(C-3-1)15dda-1. Records available 1955-65

Jan.	15, 1965	+12.0	June	4, 1965	+10.5	Sept. 30, 1965	+18.0
	28	12.1		21	10.9	Oct. 16	18.7
Feb.	24	11.4		29	11.4	Nov. 9	19.6
Mar.	12	11.2	July	13	12.4	30	19.2
Apr.	9	10.4		27	13.1	Dec. 14	19.4
	27	9.9	Aug.	12	14.5	29	19.6
May	11	9.9	Sept.	16	17.2		

(C-3-1)20ddb-1. Records available 1963-65

Feb.	24, 1965	-147.1	Sept.	8, 1965	-146.1

(C-3-1)21daa-1. Records available 1962-63, 1965

Sept.	14, 1965	-47.3

(C-3-1)27cdd-1. Records available 1931-65

Sept.	16, 1965	-3.5	Nov.	9, 1965	-.4	Dec.	14, 1965	-2.4
Oct.	16	.4		29	1.5		29	3.6

(C-3-1)28bac-1. Records available 1963-65

Feb.	18, 1965	-100.0	Sept.	8, 1965	-87.4

(C-3-1)29bbc-1. Records available 1964-65

Feb.	18, 1965	-48.2	Sept.	22, 1965	-33.6

(C-3-1)30aba-1. Records available 1956-65

Jan.	13, 1965	-79.1	June	10, 1965	I-74.5	Sept.	22, 1965	I-69.2
	28	79.3		21	I73.0		30	I70.2
Feb.	18	79.4		29	I72.1	Oct.	16	I70.8
Mar.	12	79.6	July	12	I71.1	Nov.	9	79.1
Apr.	9	79.8		27	I69.9		30	75.1
	27	79.8	Aug.	12	I69.2	Dec.	14	76.1
May	11	I76.8	Sept.	7	I67.8		29	76.8

(C-3-1)30acd-1. Records available 1957-65

Jan.	13, 1965	-30.2	June	4, 1965	I-23.6	Sept.	27, 1965	I-25.0
	28	30.2		21	I22.5		30	I26.5
Feb.	18	30.1		29	I22.7	Oct.	16	I26.8
Mar.	12	30.0	July	12	I23.0	Nov.	9	28.3
Apr.	9	30.0		27	I22.8		29	29.3
	26	30.0	Aug.	12	I19.1	Dec.	14	29.6
May	11	I26.8	Sept.	17	I24.3		29	29.9

(C-3-1)31cbb-1. Records available 1959, 1964-65

Feb.	18, 1965	-100.6	Sept.	9, 1965	-111.3

(C-3-1)31ccb-1. Records available 1962, 1964-65

Feb.	18, 1965	-106.7	Sept.	9, 1965	-118.0

(C-3-1)31dcd-3. Records available 1962-65

Feb.	18, 1965	-128.8	Sept.	9, 1965	-120.8

(C-3-1)32cad-2. Records available 1931-35, 1955-65

Jan.	15, 1965	-138.6	Apr.	27, 1965	-148.6	Aug.	31, 1965	-131.7
	28	139.8	May	28	151.4	Oct.	16	117.1
Feb.	18	141.9	June	29	153.9	Nov.	29	114.6
Mar.	12	144.1	Aug.	2	145.8	Dec.	29	I18.0
Apr.	9	146.8						

(C-3-1)32cdc-1. Records available 1964-65

Feb.	18, 1965	-150.9	Sept.	16, 1965	-143.1

(C-3-1)32dcc-1. Records available 1964-65

Feb.	18, 1965	-146.7	Sept.	7, 1965	-139.0

(C-3-1)33aab-1. Records available 1962-65

Sept.	16, 1965	-57.2

(C-3-2)4adb-1. Highest water level on date, in feet below land surface from recorder graph. Records available 1958-65

1965

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5	-	152.7	153.0	153.0	153.0	153.2	153.2	153.2	153.3	153.2		
10	-	152.8	153.0	153.0	153.0	153.2	153.2	153.3	153.3	-		
15	152.9	152.8	152.9	153.0	153.2	153.1	153.2	153.2	153.3	153.3		
20	152.8	152.8	153.0	153.0	153.1	153.2	153.2	153.2	-			
25	152.8	153.0	153.0	153.0	153.1	153.1	153.2	153.2	-			
Eom	152.7	152.9	152.9	153.0	153.1	153.2	153.2	153.4	H153.4			

(C-3-2)14bcd-1. Records available 1963-65

Jan.	11, 1965	-324.5	Feb.	24, 1965	-324.6

(C-3-2)28dbb-1. Records available 1960-65

Jan.	14, 1965	-141.1	May	1, 1965	-138.4	Aug.	30, 1965	-136.2
Feb.	25	140.6		28	138.3	Oct.	25	136.5
Mar.	16	140.2	July	1	136.4	Nov.	29	136.7
Apr.	9	139.4		28	136.0			

(C-3-2)33cac-1. Records available 1962, 1964-65

Jan.	15, 1965	-27.5	May	11, 1965	-24.9	Sept.	30, 1965	-30.0
	28	27.4	June	4	23.8	Oct.	16	29.6
Feb.	18	27.7	July	1	B172.7	Nov.	9	29.7
Mar.	12	28.0		13	B177.4		29	25.7
Apr.	9	28.2		27	B63.8	Dec.	14	24.8
	27	27.4	Sept.	17	30.2		29	25.1

(C-4-1)5acb-1. Records available 1964-65

Feb.	18, 1965	-156.7	Sept.	7, 1965	-152.3

(C-4-1)14abd-1. Records available 1964-65

Jan.	28, 1965	-84.6	May	11, 1965	-87.2	Sept.	7, 1965	-72.9
Feb.	25	85.6	June	4	I79.5	Oct.	1	73.2
Mar.	19	86.5		9	I79.1		29	75.4
Apr.	9	87.2	July	9	I77.8	Nov.	23	78.9
	26	87.9	Aug.	10	73.8	Dec.	31	79.9

(C-4-1)22dbd-1. Records available 1964-65

Feb.	24, 1965	-75.7	Sept.	17, 1965	-75.8

(C-4-1)23dbd-1. Highest water level on date, in feet below land surface from recorder graph. Records available 1964-65

1965

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5	48.9	49.1	49.4	49.7	49.2	47.8	47.7	47.4	-	-	47.6	48.0
10	48.9	49.2	49.4	49.7	49.2	47.8	47.7	47.3	47.2	-	47.7	48.1
15	49.0	49.2	49.5	49.8	48.8	47.8	47.6	47.0	47.4	-	47.8	-
20	49.0	49.3	49.5	49.8	48.0	47.8	47.5	47.0	47.2	-	47.8	48.2
25	49.1	49.3	49.6	49.7	47.8	47.7	47.5	47.3	47.2	47.4	47.9	48.2
Eom	49.1	49.3	49.6	49.5	47.8	47.8	47.4	47.3	47.2	47.5	48.0	48.2

(D-1-1)1add-1. Records available 1965

July	14, 1965	-27.4*	Aug.	17, 1965	-30.6*	Oct.	21, 1965	-32.1*
	20	28.2*	Sept.	20	31.2*	Dec.	1	31.9*

(D-1-1)1dbd-6. Records available 1965

June	25, 1965	-84.8*	Aug.	17, 1965	-86.6*	Oct.	21, 1965	-91.5*
July	14	81.4*	Sept.	20	90.1*	Dec.	1	92.7*
	20	81.6*						

(D-1-1)4add-1. Records available 1965

Feb.	24, 1965	-349.9	Apr.	27, 1965	-343.7	June	11, 1965	-341.2
Mar.	19	347.3	May	4	343.1		18	341.0
	26	346.4		12	342.6		25	340.9
Apr.	2	345.7		20	342.1	July	6	340.6
	9	345.0		27	341.7		13	340.6
	20	344.2	June	4	341.4			

(D-1-1)4cac-1. Records available 1934-65

Jan.	5, 1965	-218.0†	June	2, 1965	-202.8†	Sept.	28, 1965	-199.2†
Feb.	2	218.0†		29	202.1†	Nov.	2	224.5†
Mar.	2	209.4†	Aug.	3	202.2†		30	197.0†
Apr.	13	205.4†		31	200.8†	Dec.	28	196.3†
May	4	204.3†						

(D-1-1)5aaa-1. Records available 1934-65

Jan.	5, 1965	-129.5†	May	4, 1965	-123.0†	Sept.	7, 1965	-119.4
Feb.	2	128.4†	June	2	121.7†		28	119.8†
	19	127.4		29	121.0†	Nov.	2	117.5†
Mar.	2	125.6†	Aug.	3	118.6†		30	117.1†
Apr.	13	124.1†		31	119.4†	Dec.	28	117.5†

(D-1-1)7abd-6. Records available 1931, 1935-65

Feb.	26, 1951	B+6.8†	Mar.	12, 1953	B+6.9†	Mar.	4, 1955	B+7.2†
Mar.	13	B7.0†	May	21	B5.8†	May	31	B6.0†
June	7	B4.5†	Aug.	5	B4.9†	July	8	B5.1†
Aug.	11	B5.0†	Dec.	18	B6.5†	Oct.	6	B6.0†
Sept.	28	B5.0†	Mar.	4, 1954	B5.8†	Nov.	28	B6.8†
June	13, 1952	B4.8†	June	10	B6.4†	Mar.	6, 1956	B6.9†
Oct.	2	B4.7†	July	23	B7.0†	May	3	B6.0†
Nov.	17	B6.1†	Aug.	31	B7.0†	Aug.	17	B4.4†
Dec.	17	B6.5†	Nov.	12	B6.4†	Sept.	20	B5.1†

See footnotes at end of table.

Table 6.--Water levels in selected observation wells--Continued

(D-1-1)7abd-6 - Continued

Dec.	31, 1956	B+6.7†	Aug.	6, 1963	B+5.6	Dec.	8, 1964	B+7.8
May	6, 1957	B8.6	Oct.	23	B6.5		29	B8.0
June	11	B7.4	Nov.	16	B6.8	Jan.	17, 1965	B8.1
Aug.	23	B5.8	Dec.	23	B6.8		29	B8.2
Oct.	18	B6.8	Jan.	4, 1964	B6.8	Feb.	25	B8.4
Dec.	11	B8.2		21	B6.9	Mar.	19	B8.5
Mar.	12, 1958	B7.2	Feb.	28	B6.8	Apr.	7	B8.2
June	5	B6.3	Mar.	14	B7.1		26	B8.0
Sept.	5	B6.3	Apr.	15	B7.4	May	12	B7.9
Oct.	30	B6.8		28	B7.5	June	9	B7.7
Dec.	17	B7.3	May	12	B8.0		25	B8.0
Mar.	19, 1959	B7.6	June	11	B7.6	July	9	B7.7
May	22	B6.5		23	B6.8		26	B8.2
July	29	B5.3	July	9	B6.6	Aug.	9	B7.9
May	18, 1960	B6.1		22	B6.8	Sept.	1	B8.3
Sept.	12	B5.7	Aug.	5	B6.8		17	B8.8
Apr.	4, 1961	B5.7		20	B6.9	Oct.	2	B9.4
May	29	B4.4	Sept.	2	B6.7		14	B8.7
Dec.	20	B7.0		16	B7.1		29	B9.4
Mar.	14, 1962	B6.9	Oct.	2	B7.4	Nov.	23	B8.8
Dec.	12	B6.7		29	B7.1	Dec.	10	B9.0
Mar.	1, 1963	B6.2	Nov.	22	B8.1		31	B8.8

(D-1-1)10cac-1. Records available 1934-65

Jan.	18, 1965	-142.4†	May	12, 1965	-142.0	Aug.	23, 1965	-142.3
Feb.	2	144.8†		20	142.1		31	142.4†
	17	144.0		27	142.1	Sept.	7	142.4
	24	143.0	June	4	141.9		20	142.6
Mar.	2	142.1†		11	141.8		28	142.5†
	19	143.0		18	142.0	Oct.	2	142.6
	26	142.8		25	141.7		14	142.7
Apr.	2	142.8		29	141.8†		26	142.8
	9	142.7	July	6	141.7	Nov.	2	142.8†
	13	142.2†		13	141.8		22	143.0
	20	142.7		22	141.8		30	143.0†
	27	142.6	Aug.	5	142.0	Dec.	28	143.3†
May	4	142.2		13	142.1			

(D-1-1)19cdb-17. Records available 1956-65

Jan.	16, 1965	B+13.1	June	8, 1965	+8.8	Oct.	1, 1965	+11.8
	29	13.1		25	B9.9		15	12.3
Feb.	25	13.6	July	9	B8.5		29	12.9
Mar.	19	13.3		27	B9.0	Nov.	23	14.0
Apr.	7	13.5	Aug.	9	B8.6	Dec.	10	14.1
	26	B13.0	Sept.	1	B9.5		31	14.0
May	12	B12.4		17	12.1			

(D-1-1)26ddc-4. Highest water levels on date, in feet below land surface from recorder graph. Records available 1964-65

1965

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5	251.4	-	251.6	251.4	250.9							
10	251.3	251.5	251.7	251.4	250.6							
15	251.5	251.5	251.6	251.4	250.3							
20	-	251.5	-	251.4	250.1							
25	251.7	251.6	251.5	251.2	249.9							
Eom	251.6	251.6	251.5	250.9	250.2							

(D-1-1)30aca-23. Records available 1956-65

Apr.	26, 1965	-7.8	July	9, 1965	-10.9	Oct.	15, 1965	-9.0
May	12	8.1		27	11.7		29	7.9
	25	9.0	Aug.	10	12.2	Nov.	23	7.6
June	3	10.2	Sept.	2	11.5	Dec.	10	7.4
	7	10.7		17	10.7		31	5.5
	25	11.1	Oct.	1	9.7			

(D-1-1)30cda-10. Records available 1956-57, 1964-65

Feb.	16, 1965	-24.0	July	9, 1965	-37.7	Oct.	1, 1965	-33.2
Apr.	7	20.5		27	42.3		15	30.4
	26	22.7	Aug.	10	45.6		29	27.4
May	12	21.9	Sept.	2	44.7	Nov.	23	24.2
June	8	28.2		17	38.1	Dec.	10	21.6
	25	34.0						

(D-2-1)3ada-2. Records available 1964-65

Feb.	16, 1965	-237.5						

(D-2-1)4dbd-4. Records available 1931-65

Jan.	16, 1965	-22.7	June	9, 1965	-20.4	Oct.	1, 1965	-17.7
	25	22.6†		22	16.2†		15	18.9
	29	22.4		25	15.8		25	19.5†
Feb.	23	22.9	July	9	15.9		29	19.7
Mar.	19	23.4		27	14.8	Nov.	23	20.9
Apr.	7	23.2	Aug.	10	16.3	Dec.	10	21.6
	26	23.4		23	15.2†		21	21.8†
May	12	24.2	Sept.	2	17.2		31	22.1
	24	24.2†		17	17.8			

(D-2-1)5aaa-1. Records available 1931-65

Jan.	11, 1965	-9.0†	May	10, 1965	-11.4†	Oct.	29, 1965	-7.8†
Feb.	1	10.0†	June	7	16.1†	Dec.	7	6.6†
Mar.	2	9.2†	Sept.	8	10.9†		27	6.5†
Apr.	6	9.5†		27	9.1†			

(D-2-1)5aba-2. Records available 1964-65

Jan.	29, 1965	+10.9	Apr.	26, 1965	+8.6	July	9, 1965	+6.6
Feb.	23	11.7	May	12	9.2		27	6.8
Mar.	19	12.4	June	8	3.5	Aug.	10	4.2
Apr.	7	10.9		25	6.8	Sept.	2	7.7

(D-2-1)5aba-2 - Continued

Sept.	17, 1965	+10.2	Oct.	15, 1965	+10.8	Nov.	23, 1965	+13.6
Oct.	1	11.8		29	12.6	Dec.	10	13.9

(D-2-1)7cbd-4. Records available 1957-60, 1963-65

Jan.	17, 1965	B+13.3	May	13, 1965	B+12.7	Sept.	1, 1965	B+12.7
	29	B13.3	June	9	B10.9		20	B14.4
Feb.	23	B13.3		25	B10.3	Oct.	2	B14.3
Mar.	19	B13.6	July	12	B11.2		30	B14.1
Apr.	12	B13.1		27	B11.9	Dec.	31	B14.3
	26	B13.1	Aug.	10	B11.9			

(D-2-1)7dda-1. Records available 1956-65

Jan.	29, 1965	+15.3	Apr.	26, 1965	+11.0	Oct.	30, 1965	+15.4
Feb.	23	16.1	May	13	11.5	Nov.	23	19.8
Mar.	19	16.0	Sept.	18	11.6	Dec.	16	17.8
Apr.	12	8	Oct.	2	13.2		31	18.1

(D-2-1)8ccd-19. Highest water level on date, in feet above land surface from recorder graph. Recorder operated by Salt Lake City Water Department. Records available 1931-52, 1956-65

1965

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5	26.9	25.7	26.5	27.2	19.3	12.3	9.8	9.9	8.3	23.3	26.9	-
10	27.6	26.7	27.0	27.4	22.6	11.3	7.3	6.6	13.3	21.2	25.3	32.2
15	28.8	26.0	27.3	27.8	24.0	15.4	5.4	7.7	13.0	21.8	24.9	32.0
20	24.6	26.7	27.3	24.3	-	12.2	8.8	9.9	23.0	25.4	28.1	-
25	25.0	26.9	26.1	22.0	18.0	12.0	9.2	13.8	22.6	26.1	28.5	-
Eom	24.2	26.8	26.3	20.4	16.3	13.7	7.8	9.8	22.5	26.7	30.5	-

(D-2-1)15acc-1. Water level at noon on date to Jan. 1, 1962, after which highest water level on date, in feet below land surface from recorder graph. Recorder operated by Salt Lake City during Apr. 29, 1941, to Dec. 31, 1954, and Sept. 18, 1958, to Dec. 31, 1965. Records available 1934-65

1951

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5	66.2	67.8	-	72.1	70.9	65.8	61.9	60.8	61.6	62.8	-	66.3
10	66.2	68.4	-	71.8	70.0	65.0	61.5	60.6	61.9	62.8	-	-
15	66.8	68.8	71.5	71.7	69.1	64.2	61.4	60.9	62.2	62.8	64.9	-
20	67.7	69.3	71.8	71.9	68.3	63.3	61.3	61.0	62.3	-	-	67.1
25	68.0	70.7	72.0	72.2	67.7	62.8	61.0	61.3	62.5	-	65.8	-
Eom	67.7	71.0	72.3	71.6	66.8	62.4	60.9	61.6	62.8	-	66.0	68.0

1952

5	-	70.7	71.6	71.8	69.2	63.2	57.2	56.3	-	59.1	61.4	64.1
10	69.4	70.8	-	71.5	68.5	62.3	57.0	56.2	57.5	59.4	61.9	64.5
15	69.7	-	71.9	71.6	66.6	59.6	56.7	56.4	57.9	59.8	62.3	64.4
20	69.9	71.1	72.0	71.3	64.9	59.1	56.6	56.5	-	60.0	62.9	64.7
25	70.3	71.2	72.1	70.5	63.3	58.2	56.7	56.8	58.6	60.3	-	65.3
Eom	70.4	71.2	-	70.2	-	57.6	56.5	57.2	58.9	60.8	-	-

1953

5	-	66.7	68.2	69.4	69.2	-	61.3	60.1	62.1	63.8	65.3	-
10	65.4	67.2	68.5	69.3	68.4	H64.4	61.1	60.5	62.6	63.9	65.8	-
15	65.7	67.3	68.7	-	-	63.7	60.6	60.9	62.9	-	66.2	-
20	65.9	H67.6	-	69.7	H67.2	63.2	60.5	61.0	63.2	64.2	-	-
25	66.4	67.8	69.1	69.6	66.6	62.4	60.4	61.3	63.4	64.4	H66.9	-
Eom	66.6	67.7	69.3	H69.4	65.7	H61.7	60.5	61.7	63.5	-	67.0	-

1954

5	-	71.2	72.5	72.7	H71.5	-	66.1	-	68.9	-	69.7	71.5
10	-	H71.4	72.4	72.9	70.9	67.0	66.1	-	68.9	69.3	69.9	71.7
15	69.9	71.8	-	72.7	-	-	-	-	H69.0	69.6	70.0	H72.1
20	H70.3	-	72.7	72.7	69.7	65.8	-	-	69.3	69.6	70.5	72.5
25	-	72.1	-	72.5	68.9	66.1	-	H67.9	69.1	69.5	70.7	72.7
Eom	71.0	72.4	H72.9	71.9	68.4	-	-	-	-	69.5	71.3	73.1

(D-2-1)15acc-1 - Continued

Jan.	5, 1955	-73.7	Aug.	3, 1955	-66.9	Mar.	28, 1956	-75.7
	12	74.3		10	67.5	Apr.	4	75.8
	19	74.4		17	67.8		11	75.5
	26	74.9		24	68.3		17	75.1
Feb.	2	75.1	Sept.	2	68.7		25	74.8
	9	75.5		7	68.8	May	2	74.3
	16	75.9		14	69.0		9	73.6
	24	76.3		21	69.3		16	72.9
Mar.	2	76.6		28	69.3		23	72.4
	9	76.6	Oct.	5	69.3		29	71.9
	16	77.0		12	69.6	June	6	71.1
	23	77.2		26	69.1		14	70.2
	30	77.2	Nov.	2	70.7		27	69.7
Apr.	6	77.4		9	71.3	July	2	69.4
	13	77.1		17	71.3		10	68.9
	20	77.2		23	71.7		17	69.1
	27	77.5		31	72.1		25	68.9
May	5	76.4	Dec.	7	72.7	Aug.	1	68.8
	11	75.6		14	73.1		8	69.2
	18	74.1		21	73.2		15	69.5
	25	72.5		28	73.1		23	69.8
June	1	71.1	Jan.	4, 1956	73.5		29	70.2
	7	69.8		17	73.9	Sept.	4	70.6
	15	68.7		25	73.5		11	70.5
	22	67.9	Feb.	1	74.0		19	70.8
	29	67.3		8	73.7		26	70.9
July	6	67.1		15	73.9	Oct.	2	70.9
	13	66.9		29	74.5		10	70.9
	20	66.9	Mar.	7	75.1		17	70.9
	27	66.6		14	75.3		24	71.2

See footnotes at end of table.

(D-2-1)15acc-1 - Continued

Nov.	2, 1956	-71.7	June	19, 1957	-69.2	Jan.	21, 1958	-74.6
	14	71.8		26	68.0		28	74.3
	21	72.3	July	2	67.4	Feb.	4	74.1
	28	72.5		10	66.5		11	74.1
Dec.	12	72.9		17	66.0		18	74.0
	19	72.9		25	65.9		25	74.0
	26	74.2		31	65.7	Mar.	4	74.5
Jan.	2, 1957	74.5	Aug.	7	66.0		11	74.7
	9	75.3		14	66.3		18	75.1
	16	75.6		21	66.7	Apr.	1	74.9
	23	75.5		28	67.0		15	74.5
	30	76.1	Sept.	4	67.6		22	73.7
Feb.	6	76.3		11	68.3		29	73.3
	14	76.6		18	68.7	May	6	72.9
	20	77.0		25	68.9		13	72.4
	27	77.3	Oct.	2	69.3		20	71.7
Mar.	6	77.5		9	69.4	June	3	69.9
	13	77.7		16	69.4		10	68.9
	20	77.8		23	69.7		17	68.1
	26	78.1		30	69.8		24	67.6
Apr.	3	78.7	Nov.	6	70.2	July	1	67.2
	10	78.1		13	70.7		8	67.2
	17	77.3		20	71.7		15	66.9
	24	76.9		27	72.0		22	67.2
May	1	76.3	Dec.	3	73.0		29	66.6
	8	75.7		11	72.6	Aug.	6	67.8
	15	75.0		18	72.8		12	67.9
	22	73.9		26	73.0		18	68.2
	29	72.7		30	73.6		25	68.7
June	5	71.7	Jan.	7, 1958	73.7	Sept.	1	69.1
	12	70.5		14	74.1		8	69.5

(D-2-1)15acc-1 - Continued

1958

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5										70.6	71.8	72.7
10										70.9	H71.9	73.1
15										71.0	72.0	-
20									70.1	71.3	72.3	-
25									70.4	71.4	72.4	-
Eom									70.4	71.7	-	-

1959

5	-	75.8	77.2	77.5	H76.9	74.9	-	72.9	73.6	73.5	H75.1	76.7
10	74.6	H76.0	77.3	77.7	76.4	74.8	73.1	73.0	73.9	73.6	75.0	76.7
15	74.7	76.5	77.2	-	76.3	-	72.9	73.1	73.7	H73.5	75.5	H77.3
20	74.7	-	77.6	-	76.3	74.3	H72.8	73.1	73.7	73.7	75.9	77.5
25	75.1	76.9	77.5	77.3	75.8	73.9	72.9	73.1	73.7	73.9	76.1	77.5
Eom	75.5	77.0	77.2	76.9	75.2	-	73.1	73.3	73.5	-	76.5	77.8

1960

5	78.2	79.0	79.6	80.1	78.5	77.3	76.5	76.5	76.9	77.7	78.7	79.6
10	78.2	79.0	79.8	-	78.1	76.9	76.5	76.7	77.0	77.7	78.8	-
15	78.3	79.3	79.8	80.0	78.0	76.6	76.5	76.6	77.1	77.9	H79.4	79.8
20	78.5	79.5	79.8	80.1	78.0	76.5	76.5	76.7	77.2	77.7	79.3	80.1
25	78.5	79.2	79.9	79.7	77.9	76.5	76.6	76.9	77.4	H78.0	79.3	80.2
Eom	78.8	79.4	80.1	79.1	H77.5	76.5	76.5	76.9	77.4	78.4	79.5	80.4

1961

5	-	81.9	82.9	84.0	87.0	85.9	86.7	87.6	89.4	90.5	89.3	88.0
10	80.5	82.6	-	84.4	87.2	86.0	86.6	87.8	89.8	90.9	88.9	87.8
15	-	82.4	83.3	-	87.5	86.2	86.8	88.1	90.0	90.9	88.5	87.7
20	80.8	82.6	83.6	85.5	87.2	86.3	86.9	88.4	90.1	90.6	88.2	87.8
25	81.0	82.7	83.5	86.3	86.5	86.4	87.1	88.7	90.4	90.3	88.0	87.6
Eom	81.6	83.0	83.8	86.5	85.8	86.7	87.4	89.0	90.4	89.7	87.8	87.8

1962

5	87.7	88.4	88.6	88.4	87.3	82.2	80.5	82.2	84.9	85.6	85.9	86.6
10	87.8	88.6	89.4	88.4	86.7	82.5	80.6	82.9	85.1	85.9	85.9	86.6
15	-	88.7	88.5	88.2	85.9	-	80.6	83.5	85.4	86.2	86.0	86.7
20	87.5	88.7	88.3	87.8	85.2	81.0	80.6	83.8	85.5	85.9	85.9	86.9
25	88.2	88.8	88.6	88.0	83.7	80.8	80.8	84.3	85.7	86.0	85.2	87.0
Eom	88.3	88.8	88.6	88.0	82.7	80.7	81.5	84.7	85.8	85.9	86.2	87.1

1963

5	87.3	88.0	88.6	89.1	89.2	87.3	85.4	88.4	89.6	89.1	89.3	88.8
10	87.0	87.9	88.6	89.3	89.0	86.8	86.1	88.7	89.5	89.4	89.2	88.7
15	87.8	88.2	88.7	89.2	88.8	86.0	86.5	89.0	89.4	89.6	88.9	88.9
20	88.0	88.4	88.9	-	88.7	85.0	87.2	89.2	89.4	89.5	88.8	88.8
25	87.9	88.5	89.0	89.4	88.3	85.1	87.6	89.4	89.2	89.5	88.8	88.8
Eom	88.1	88.5	-	89.3	87.6	85.2	87.8	89.6	89.0	89.4	88.9	89.0

1964

5	88.9	89.3	90.3	90.8	90.3	87.4	83.6	83.8	84.9	86.5	87.0	87.0
10	88.8	89.5	90.4	-	89.9	86.6	83.5	83.7	85.4	86.6	86.8	86.8
15	89.0	89.7	90.5	90.8	89.7	86.6	83.2	83.9	85.5	-	87.0	86.6
20	89.0	90.0	90.4	90.7	89.2	86.1	83.1	84.1	85.6	87.2	87.1	86.8
25	89.1	90.0	90.8	90.8	89.0	84.3	83.2	84.4	85.7	87.0	87.1	86.8
Eom	89.3	90.0	90.6	90.6	88.1	83.8	83.4	84.6	86.0	87.0	86.8	86.9

1965

5	86.8	86.2	86.1	85.0	85.4	82.8	80.0	80.3	81.5	80.9	81.2	82.1
10	86.7	86.1	85.4	85.0	85.2	82.4	79.9	80.8	81.5	81.0	81.3	82.1
15	86.8	86.1	85.1	85.2	84.7	81.4	80.2	80.9	81.2	80.9	81.4	82.2

(D-2-1)15acc-1 - Continued

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
20	86.4	86.1	85.1	85.2	84.1	81.0	80.1	-	81.3	81.1	81.6	82.4
25	86.4	86.2	85.0	85.4	83.6	80.5	80.2	81.3	81.0	81.2	81.7	82.4
Eom	86.3	86.3	85.0	85.4	82.9	80.0	80.4	81.5	81.1	81.2	81.9	-

(D-2-1)16dbc-1. Records available 1962-65

Jan.	11, 1965	-40.7†	May	11, 1965	-40.4†	Sept.	8, 1965	-43.2
Feb.	2	42.8†	June	2	44.6†		28	40.8†
	17	40.8		28	41.7†	Nov.	1	37.7†
Mar.	1	43.2†	Aug.	9	A89.4†	Dec.	2	37.2†
Apr.	6	40.0†						

(D-2-1)21dbc-1. Records available 1961-65

Feb.	2, 1965	-88.4†	June	10, 1965	B-104.7†	Sept.	7, 1965	-99.6
	17	87.9	July	5	B172 †		29	93.7†
Mar.	23	86.7†	Aug.	10	B130 †	Nov.	2	85.8†
Apr.	6	86.4†	Sept.	1	B148 †	Dec.	2	83.6†
May	11	86.2†						

(D-2-1)28abc-2. Records available 1955-65

Jan.	16, 1965	-163.0	June	9, 1965	-162.5	Oct.	1, 1965	-160.7
	29	162.4		25	162.6		15	159.8
Feb.	23	161.8	July	9	162.3		29	159.3
Mar.	19	161.5		27	162.4	Nov.	23	158.1
Apr.	7	160.9	Aug.	10	163.0	Dec.	10	158.0
	26	160.9	Sept.	2	162.2		31	157.8
May	12	160.8		17	160.9			

(D-2-1)28ccc-3. Records available 1956, 1958, 1964-65

Feb.	17, 1965	-199.7						

(D-2-1)28ddb-1. Records available 1934-65

Jan.	5, 1965	-11.2†	May	11, 1965	-12.4†	Sept.	1, 1965	-9.2†
Feb.	2	10.7†	June	3	9.0†		29	9.2†
Mar.	2	11.0†	July	5	6.1†	Oct.	27	9.7†
Apr.	6	12.3†	Aug.	10	8.1†	Nov.	30	10.5†

(D-2-1)32bbb-1. Records available 1955-65

Jan.	29, 1965	-104.2	Apr.	26, 1965	-104.0	Oct.	29, 1965	-103.6
Feb.	23	104.1	Sept.	2	104.8	Nov.	23	102.1
Mar.	19	104.6		18	104.4	Dec.	31	102.0
Apr.	7	104.0	Oct.	1	104.3			

(D-2-1)33add-2. Records available 1964-65

Jan.	16, 1965	C-264.1	Apr.	26, 1965	C-259.1	Oct.	1, 1965	-262.8
	29	C263.5	May	12	259.2		29	260.8
Feb.	23	C262.7	June	9	262.3	Nov.	23	260.8
Mar.	19	C262.2	Sept.	2	263.8	Dec.	31	258.0
Apr.	7	C261.2		18	263.2			

(D-3-1)2ccc-1. Highest water level on date, in feet above land surface from recorder graph. Records available 1956-65

1965

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5	-	536.2	536.2	-	-	537.8	540.0	-	539.1	535.7	531.7	529.7
10	-	536.4	-	535.7	-	538.3	540.5	541.0	538.6	535.2	531.3	529.0
15	-	536.5	-	536.1	536.4	538.4	541.1	540.8	537.9	534.3	530.9	528.8
20	536.3	536.4	-	-	536.6	539.0	541.2	540.4	537.5	534.0	530.5	528.8
25	536.3	536.4	-	-	536.8	H539.3	541.3	-	536.6	533.3	530.0	528.5
Eom	536.3	536.0	-	-	537.1	539.5	541.4	-	536.5	533.0	530.0	528.4

(D-3-1)17bcc-1. Records available 1955-65

Jan.	29, 1965	-136.8	June	25, 1965	-137.2	Oct.	1, 1965	-137.4
Feb.	24	137.1	July	9	137.4		15	136.6
Mar.	19	137.2		27	137.5		29	142
Apr.	26	137.3	Aug.	10	137.4	Nov.	23	142
May	13	137.1	Sept.	2	137.1	Dec.	10	136.3
June	9	137.3		17	137.0		31	136.5

(D-3-1)18cba-1. Records available 1964-65

Jan.	29, 1965	-71.9	June	25, 1965	I-74.0	Oct.	2, 1965	-72.8
Feb.	24	73.0	July	9	I74.2		14	72.4
Mar.	19	72.9		27	I73.9		25	72.1
Apr.	7	72.9	Aug.	10	I74.4		29	72.1
	26	73.2	Sept.	2	73.5	Nov.	30	71.7
May	13	I73.2		17	73.4	Dec.	31	71.4
June	9	I73.9		22	72.8			

(D-3-1)29cbc-1. Records available 1964-65

Jan.	29, 1965	-58.4	June	25, 1965	-59.1	Oct.	1, 1965	-57.0
Feb.	24	58.5	July	9	58.7		15	56.3
Mar.	19	58.9		27	58.4		29	55.8
Apr.	7	58.8	Aug.	10	57.9	Nov.	23	56.2
	26	59.4	Sept.	2	57.1	Dec.	16	56.4
May	13	59.3		17	57.0		31	56.4
June	9	59.3						

(D-4-1)6bbc-1. Records available 1963-65

Jan.	28, 1965	-54.5	June	9, 1965	-55.4	Sept.	17, 1965	-53.1
Feb.	19	54.8		25	55.1	Oct.	1	52.4
Mar.	19	55.2	July	9	54.3		15	52.2
Apr.	9	55.4		27	53.7		29	52.2
	26	56.2	Aug.	10	53.4	Dec.	16	52.6
May	13	56.0	Sept.	2	52.7		31	52.6

A Well being pumped.
B Well pumped or flowed recently.
C Nearby well being pumped.
F Dry at depth indicated.
H Tape measurement
I Affected by water in nearby canal.

Table 7.--Selected drillers' logs of wells

Altitude of land surface at the well.--Surveyed altitudes are given in feet and tenths; altitudes interpolated from topographic maps are given in feet.
Thickness.--Given in feet.

Depth.--Given in feet below land surface.

Remarks.--Records of these wells given in table 5 or in Utah Basic-Data Release No. 11, table 12.

	Thickness	Depth
(A-1-1)31ccc-4. Log by J. S. Lee and Sons. Alt. 4,335 ft.		
Clay, brown, and gravel	24	24
Gravel	6	30
Boulders, gray, clay, and gravel	60	90
Clay, red, sandy	15	105
Clay, red, and gravel	15	120
Conglomerate, brown	20	140
Gravel	90	230
Clay, sandy	6	236
Gravel	6	242
Clay, blue	3	245
Clay, sandy	8	253
Gravel	4	257
Conglomerate	7	264
Gravel	74	338
Gravel, silty	58	396
Clay, blue	3	399
Conglomerate, red	6	405
Gravel	3	408
Clay, blue	2	410
Gravel, black	3	413
Clay, blue	2	415
Gravel	90	505
Clay, green, and gravel	15	520
Gravel	14	534
Conglomerate	58	592
Clay, tan	11	603
Clay, blue	91	694
Conglomerate	11	705
(A-1-2)16dac-1. Log by J. A. Nak. Alt. 6,820 ft.		
Soil	6	6
Clay and cobbles	11	17
Clay	14	31
Cobbles	8	39
Clay, cobbles, and boulders	23	62
Hardpan	5	67
Clay	27	94
Cobbles and hardpan	26	120
Clay and sand	12	132
Clay and cobbles	8	140
Gravel and clay lenses	56	196
(A-1-2)27bdd-3. Log by Intermountain Drilling Co. Alt. 5,885 ft.		
Gravel and boulders	21	21
Shale	44	65
Sandstone	15	80
Shale and thin beds of sandstone	300	380
Sandstone	15	395
Shale	10	405
(A-1-2)32dad-2. Log by J. H. Peterson and Sons. Alt. 5,520 ft.		
Soil	6	6
Clay, red	17	23
Boulders	7	30
Clay, red	5	35
Hardpan	10	45
Gravel; water	4	49
Conglomerate	11	60
Gravel; water	5	65
(A-1-2)33cba-3. Log by J. H. Peterson and Sons. Alt. 5,580 ft.		
Soil	10	10
Gravel	5	15
Clay, red	20	35
Rock, red	15	50
Hardpan and broken, red rock	26	76
(B-1-1)16ccc-1. Log by Sylvester Kilpack. Alt. 4,217 ft.		
Soil	1	1
Clay	39	40
Sand	35	75
Clay	18	93
Sand	22	115
Clay	17	132
Sand	33	165
Clay	26	191
Hardpan	1	192
Clay	23	215
Sand	8	223
Clay	7	230
Sand	10	240
(B-1-2)7ccc-1. Log by J. V. Stoddard. Alt. 4,210 ft.		
Clay	30	30
Sand	5	35
Clay	25	60
Sand	15	75
Clay	55	130
Sand	10	140
Clay	90	230
Sand	5	235
Clay	15	250
Sand	15	265
Clay	25	290
Sand	10	300
Clay	26	326
Sand	14	340
Clay	38	378
Sand	11	389
(B-1-2)11dca-4. Log by Intermountain Drilling Co. Alt. 4,214 ft.		
Silt	12	12
Organic matter, black	2	14
Clay	101	115
Clay and silt	65	180
Clay	30	210
Clay with sand lenses	65	275
Silt and sand	17	292
Clay with sand lenses	135	427
Sand	9	436
Clay and silt	44	480
Silt and sand with gravel lenses	45	525
Silt and sand	75	600
Sand and gravel	7	607
(C-1-1)20bdd-1. Log by J. G. Lee Drilling Co. Alt. 4,245 ft.		
Soil	3	3
Clay	10	13
Sand	56	69
Sand and gravel	23	92
Clay	31	123
Clay and sand	89	212
Gravel; water	18	230
Clay	60	290
Clay and gravel	68	358
Clay	147	505
Sand and gravel	25	530
Clay	37	567
Sand and gravel	19	586
Clay	8	594
Sand and clay	18	612
Clay	12	624
Sand and gravel	36	660
Clay	66	726
Sand and gravel	11	737
Clay, sand, and gravel	178	915
Clay	1	916
(C-1-1)24bbd-2. Log by J. S. Lee and Sons. Alt. 4,230 ft.		
Soil	4	4
Clay, brown	17	21
Clay, blue, sandy	62	83
Sand, blue, and clay	15	98
Clay, blue, sandy	57	155
Sand; water	9	164
Clay, blue, sandy	21	185
Clay, blue, sticky	12	197
Clay, blue, sandy	7	204
Sand, blue, and gravel	35	239
Clay, brown	29	268
Sand, blue, and gravel	8	276
Sand, and silt, blue	7	283
Clay, brown	22	305
Clay, blue	80	385
Clay, brown, and gravel	30	415
Clay, brown, gravel, and sand lenses	10	425
Clay, brown	35	460
Clay, brown, and gravel	3	463
Clay, brown	22	485
Gravel	2	487
Clay, brown	18	505
Clay, gray	10	515
Gravel and sand	4	519
Clay, sticky	12	531
Sand, coarse	2	533
Sand, coarse, and gravel	9	542
Sand, coarse	2	544
Clay, blue, sticky, and sand	62	606
(C-1-1)24bbd-2 - Continued		
Sand, fine	3	60
Clay, gray, sticky	3	61
Clay, gray, sandy	4	61
Sand, coarse	2	61
Sand and gravel	12	63
Clay, red, sticky	7	63
Clay, red, sandy	3	64
Sand, coarse	2	64
Clay, red	8	65
Clay, brown	20	67
Gravel and clay; water	5	67
Clay, blue, and gravel	15	69
Clay, gray	5	69
Sand and gravel	11	70
Clay, blue, sandy	5	71
Sand and gravel	4	71
Clay, gray	5	72
Sand and gravel	7	72
Clay, gray	22	74
Gravel	3	75
Clay, gray	5	75
Clay, brown	15	77
(C-1-1)25acb-3. Log by Robinson Drilling Co. Alt. 4,240 ft.		
Clay, dark	10	10
Clay, gray, sandy	15	25
Clay, black, and sand	43	68
Gravel; water	2	70
Clay, black	14	84
Clay and sand	6	90
Clay, sandy	50	140
Sand and clay	40	180
Sand, dark gray	15	195
Clay, gray	15	210
Silt, gray	15	225
Clay, gray	41	266
Clay, gray, and sand lenses	24	290
Clay, blue	32	322
Silt, gray	5	327
Clay, blue	3	330
Silt, gray	15	345
Gravel; water	2	347
Clay, brown	27	374
Sand, coarse, and gravel	2	376
Clay, blue	4	380
Clay, red and gray	10	390
Clay, gray	5	395
Clay, brown and gray	25	420
Clay, gray	20	440
Sand, coarse	8	448
Clay, gray	10	458
Sand, coarse	6	464
Clay, gray	8	472
Sand, gray	4	476
Clay, green and gray	19	495
Clay, gray	20	515
Sand, gray	20	535
Clay	30	565
Sand and gravel	35	600
Conglomerate	10	610
Clay, gray	30	640
Clay, brown	30	670
Clay, gray, sandy	20	690
Sand, gray	10	700
Clay, gray	5	705
Sand and gravel	22	727
Clay, gray	3	730
Sand and fine gravel	16	746
Clay, red	1	747
Sand and fine gravel	7	754
Conglomerate	2	756
Clay, gray	10	766
Gravel, fine	4	770
Clay, gray	9	779
Sand, coarse	9	788
Sand, coarse, and clay	6	794
Clay, gray	113	907
Sand, coarse	30	937
Gravel, fine	2	939
Sand, coarse	6	945
Clay	3	948
Sand	2	950
Clay	2	952
Gravel, fine; water	11	963
Clay, gray	4	967
(C-1-1)30dca-1. Log by J. S. Lee and Sons. Alt. 4,258 ft.		
Clay, brown	30	30
Sand, fine	21	51
Clay and gravel	21	72

Table 7.--Selected drillers' logs of wells--Continued

	Thickness	Depth
(C-1-1)30dca-1 - Continued		
Clay	6	78
Gravel	32	110
Clay, sandy	30	140
Gravel	20	160
Clay and gravel	11	171
Gravel	21	192
Clay, brown	63	255
Clay, tan	28	283
Clay, brown, sandy	11	294
Clay, tan	46	340
Clay, gray	194	534
Clay, brown	26	560
(C-2-1)24bcd-1. Log by J. S. Lee and Sons. Alt. 4,304.7 ft.		
Clay, brown	5	5
Sand, brown	20	25
Clay, blue	27	52
Clay, brown, and gravel	28	80
Sand and gravel	55	135
Clay, brown	21	156
Conglomerate	6	162
Clay, brown	11	173
Conglomerate	8	181
Sand and gravel	56	237
Clay, brown, sand, and gravel	48	285
Clay, brown	60	345
Clay, brown, sandy	37	382
Clay, brown	48	430
Clay, brown, sand, and gravel	117	547
Clay, brown, and gravel	60	607
Clay, light tan	31	638
Clay and sand, hard; water	7	645
Clay, light tan, sticky	14	659
Clay and sand, hard	7	666
Clay, light tan, sticky	14	680
Clay and gravel, hard	5	685
Clay, light tan, sticky	10	695
Clay and gravel, hard	20	715
Clay, sticky	20	735
Clay and gravel	32	767
Clay, sticky	53	820
Clay and gravel	14	834
Clay, sticky	166	1,000
(C-2-1)31bdd-1. Log by Eldon Comer. Alt. 4,640 ft.		
Soil	4	4
Sand and gravel	34	38
Clay, red	4	42
Sand	6	48
Sand and gravel	5	53
Clay, red	10	63
Clay and gravel	21	84
Gravel	13	97
Clay, red	5	102
Sand and gravel	23	125
Clay, red	21	146
Sand	3	149
Clay and sand, in alternating beds	23	172
Clay and gravel	11	183
Sand and gravel	4	187
Clay, red	80	267
Clay and fine sand	6	273
Clay, red	37	310
Conglomerate	9	319
Sand and gravel	6	325
Clay, red	106	431
Clay and sand	12	443
Clay, red	87	530
(C-2-1)36ddb-1. Log by Robinson Drilling Co. Alt. 4,402 ft.		
Clay, sandy	15	15
Sand and clay lenses	43	58
Sand	12	70
Clay and sand	13	83
Clay, sand, and gravel	27	110
Clay and sand	8	118
Clay, blue	14	132
Clay and sand	35	167
Conglomerate	43	210
Clay and gravel	40	250
Gravel, two inches in diameter	15	265
Gravel, one-half inch in diameter	25	290
Clay	8	298
Sand	9	307
Sand and gravel	13	320
Gravel	42	362
Clay and gravel	42	404
Gravel	8	412
Clay	30	442
Clay and gravel	20	462
Gravel	24	486
Clay	2	488
Clay and gravel	70	558
Clay	17	575
(C-2-1)36ddb-1 - Continued		
Gravel, one and a half inches in diameter	3	578
Clay and gravel	27	605
(C-2-2)14bbc-1. Log by Eldon Comer. Alt. 4,920 ft.		
Soil	2	2
Clay, tan, sandy	15	17
Sand and gravel	41	58
Clay, tan, sandy	8	66
Clay and sand	80	146
Clay and thin sand lenses	124	270
Sand and gravel	17	287
Clay, gray, sandy	70	357
Clay, red and tan	45	402
(C-3-1)5dbb-1. Log by Robinson Drilling Co. Alt. 4,595 ft.		
Clay and gravel	6	6
Gravel	6	12
Clay and sand, brown	28	40
Clay, yellow	27	67
Conglomerate	133	200
Gravel; water	17	217
Clay, sand, and gravel	12	229
Conglomerate	21	250
Clay, gravel, and conglomerate	10	260
Conglomerate	30	290
Clay	2	292
Conglomerate	7	299
Clay	17	316
Conglomerate	44	360
Clay	3	363
Conglomerate	45	408
Gravel	17	425
Conglomerate	20	445
(C-3-1)31cbb-1. Log by Eldon Comer. Alt. 4,765 ft.		
Soil	2	2
Gravel and sand	8	10
Clay and hardpan lenses	32	42
Sand and gravel	56	98
Gravel; water	6	104
Gravel, silty	86	190
Gravel and sand	3	193
Gravel, silty	19	212
Clay	4	216
Clay and gravel	71	287
Clay	18	305
Clay and cemented gravel lenses	65	370
Clay and gravel	30	400
(C-3-1)31ccb-1. Log by Eldon Comer. Alt. 4,765 ft.		
Soil and clay	10	10
Gravel and clay	85	95
Gravel and clay lenses; water	45	140
Gravel, cemented	80	220
Clay and gravel lenses	218	438
Clay and hardpan lenses	42	480
(C-3-2)14bcd-1. Log by J. S. Lee and Sons. Alt. 5,006.3 ft.		
Soil	1	1
Gravel and clay	74	75
Clay, gravel, and sand	305	380
Gravel; water	205	585
Gravel and clay	4	589
Gravel; water	56	645
Sand, fine, clay and gravel	355	1,000
(C-3-2)26ccc-1. Log by Robinson Drilling Co. Alt. 4,990 ft.		
Gravel and clay	155	155
Gravel and cobbles	25	180
Gravel and boulders; water	45	225
Gravel; water	10	235
Gravel	5	240
Gravel and cobbles; water	25	265
Gravel	25	290
Gravel; water	10	300
(C-3-2)34dbd-1. Log by Robinson Drilling Co. Alt. 5,061 ft.		
Soil	5	5
Soil, sand, and gravel	18	23
Clay, yellow, and gravel	5	28
Clay, brown, and gravel	18	46
Clay and gravel	52	98
Clay, brown, and gravel	30	128
Clay and gravel	237	365
(C-3-2)35abc-1. Log by Robinson Drilling Co. Alt. 4,928 ft.		
Silt and sand, brown	18	18
Sand and gravel, brown	7	25
Clay and gravel	45	70
Sand and gravel	17	87
(C-3-2)35abc-1 - Continued		
Gravel	18	105
Clay and gravel	57	162
Clay, gravel, and boulders	8	170
Clay and gravel	50	220
Gravel and clay; water	5	225
Clay and gravel	30	255
Clay and coarse gravel	10	265
Gravel	30	295
Clay and gravel	55	350
Sand and gravel	12	362
Clay and gravel	5	367
Gravel	9	376
Clay and gravel	3	379
Gravel	3	382
Clay and gravel	2	384
Clay	7	391
(C-3-2)35bdc-1. Log by Robinson Drilling Co. Alt. 4,980 ft.		
Clay	6	6
Conglomerate	9	15
Clay	5	20
Conglomerate	40	60
Clay	10	70
Conglomerate and boulders	94	164
Sand; water	1	165
Conglomerate	50	215
Clay	12	227
Clay, hard	3	230
Gravel; water	35	265
Conglomerate	4	269
(C-4-1)5acb-1. Log by Eldon Comer. Alt. 4,597 ft.		
Soil	5	5
Clay, tan, gravel and boulders	94	99
Clay, tan	11	110
Clay, sand, and boulders	35	145
Clay, tan, and boulders	35	180
Sand and gravel; water	90	270
Clay, sand, and gravel	20	290
Clay and sand	55	345
(C-4-2)1bbb-1. Log by Eldon Comer. Alt. 4,890 ft.		
Soil and clay	6	6
Clay, gravel, and cobbles	19	25
Clay, tan	8	33
Clay, gravel, and cobbles	270	303
Sand, gravel, and cobbles	27	330
Clay, gravel, and cobbles	144	474
Sand, gravel, and cobbles, cemented	22	496
Clay and gravel	44	540
(D-1-1)1add-1. Log by J. S. Lee and Sons. Alt. 5,210 ft.		
Clay and gravel	35	35
Gravel, loose	3	38
Shale, hard	2	40
Sand, fine	5	45
Shale, hard	5	50
Sand and gravel	8	58
Shale and limestone	15	73
(D-1-1)1ccd-1. Log by J. H. Peterson and Sons. Alt. 5,100 ft.		
Soil	2	2
Boulders	22	24
Clay, yellow	41	65
Boulders; water	2	67
Clay, yellow	4	71
Boulders	5	76
Clay, yellow	18	94
Gravel, loose; water	7	101
Clay, yellow	5	106
(D-1-1)1dbd-6. Log by J. H. Peterson and Sons. Alt. 5,120 ft.		
Silt	26	26
Boulders	5	31
Clay	28	59
Boulders	43	102
Clay	20	122
Gravel	3	125
Clay	18	143
Gravel and boulders	2	145
Clay	7	152
(D-1-1)30acc-7. Log by J. S. Lee and Sons. Alt. 4,256 ft.		
Clay, black	5	5
Clay, brown	30	35
Clay, blue	35	70
Clay, brown, and gravel	10	80
Clay, blue, and gravel	25	105
Clay, brown, and sand	100	205
Clay, brown	9	214
Clay, blue	26	240

Table 7.--Selected drillers' logs of wells--Continued

	Thickness	Depth
(D-1-1)30acc-7 - Continued		
Clay, brown, sand, and gravel.	98	338
Clay, brown, and sand.	39	377
Clay, blue, sand, and gravel	73	450
Clay, brown, and fine sand	30	480
Cobbles.	12	492
Clay, brown, and gravel.	48	540
Clay, blue, and lenses of peat	60	600
Clay, brown, and gravel.	45	645
Clay, blue	15	660
Clay, black.	15	675
Clay, blue, and gravel	77	752
Clay, brown, and gravel lenses	142	894
No record.	10	904
(D-1-1)35cdd-1. Log by Robinson Drilling Co. Alt. 4,790 ft.		
Clay, silt, and sand	4	4
Clay and boulders.	8	12
Boulders	26	38
Gravel and boulders.	19	57
Boulders	6	63
Clay, gravel, and boulders	25	88
Boulders and conglomerate.	27	115
Gravel and boulders.	47	162
Clay, gravel, and boulders	23	185
Gravel, boulders, and conglomerate.	25	210
Gravel and boulders.	26	236
Clay, yellow	5	241
Clay and gravel.	25	266
Gravel and boulders.	38	304
Clay, yellow, and gravel	45	349
Gravel and boulders.	51	400
Boulders	7	407
Gravel and boulders.	43	450
Gravel, boulders, and conglomerate.	130	580
(D-2-1)8daa-5. Log by B. B. Gardner. Alt. 4,312 ft.		
Soil	3	3
Clay, gray, sandy.	35	38
Sand; water.	4	42
Clay, blue	52	94
Gravel; water.	1	95
Conglomerate, hard	30	125
Clay and conglomerate, in lenses.	21	146
Clay, blue	19	165
Conglomerate	22	187
Gravel and boulders.	61	248
Clay, gray	17	265
Conglomerate	7	272
Clay, gray	8	280
Boulders and conglomerate; water	12	292
(D-2-1)8daa-5 - Continued		
Clay, gray, and gravel lenses; water	61	353
Gravel and boulders; water	3	356
Clay, gray, and gravel	25	381
Clay, sandy.	19	400
Clay, gray, and gravel lenses; water	20	420
Clay, blue	15	435
(D-2-1)14ccd-1. Log by Roscoe Moss Drilling Co. Alt. 4,640 ft.		
Clay and boulders.	12	12
Sand, gravel, and boulders	38	50
Clay and gravel.	37	87
Clay, blue	44	131
Gravel, tight, and boulders.	7	138
Clay and gravel.	30	168
Gravel and boulders.	7	175
Clay, brown, and gravel.	60	235
Gravel and boulders.	10	245
Clay and boulders.	20	265
Sand, gravel, and boulders	75	340
Clay and gravel.	16	356
Clay, brown.	45	401
Sand, gravel, and boulders	29	430
Sand, gravel, and boulders, with clay lenses.	20	450
Sand, gravel, and boulders	46	496
Clay, brown, and gravel.	18	514
Clay and boulders.	21	535
Sand, gravel, and boulders, with clay lenses.	25	560
Clay and boulders.	10	570
Clay, brown, and gravel lenses	6	576
(D-2-1)33add-4. Log by Eldon Comer. Alt. 4,640 ft.		
Sand, gravel, and cobbles.	23	23
Sand and gravel.	27	50
Sand	27	77
Sand and gravel.	19	96
Clay and sand; water	22	118
Sand, cemented	27	145
Sand and gravel, cemented.	37	182
Clay and gravel.	81	263
Sand and gravel.	52	315
Clay, yellow, and sand	37	352
Clay, sand, and gravel	29	381
Clay and sand.	74	455
Clay, sand, and gravel	30	485
Sand and gravel.	17	502
Sand and gravel, cemented.	6	508
Clay, sand, and gravel	11	519
(D-2-1)33add-4 - Continued		
Clay, tan, sticky.	6	525
Clay, sand, and gravel	15	540
Sand, gravel, and cobbles.	20	560
Clay, tan, and sand.	35	595
Sand and gravel, silty	23	618
Clay and sand.	17	635
(D-2-1)34cab-2. Log by Eldon Comer. Alt. 4,655 ft.		
Sand and gravel.	4	4
Sand, gravel, and cobbles.	14	18
Sand	21	39
Sand and gravel.	63	102
Sand, cemented; water.	34	136
Clay and sand.	26	162
Sand and gravel; dry	7	169
Clay and sand, tan	33	202
Clay, sand, and gravel in alternating lenses.	28	230
Sand and gravel; dry	58	288
Sand and gravel; water	6	294
Clay, sand, and gravel	28	322
Sand and gravel.	33	355
Sand, brown, fine.	17	372
Clay and sand.	16	388
Sand and gravel.	23	411
(D-3-1)12acd-1. Log by J. S. Lee and Sons. Alt. 5,280 ft.		
Soil	2	2
Sand, gravel, and boulders; water	4	6
Sand, gravel, and boulders, clayey.	8	14
Boulders and sand; water	2	16
Sand, coarse, and boulders; water	44	60
Sand, coarse, and clay lenses.	9	69
Gravel, coarse, and boulders; water	4	73
Boulders	3	76
Sand and gravel; water	13	89
Sand	6	95
Sand and gravel; water	53	148
Bedrock.	2	150
(D-3-1)12bdc-1. Log by Eldon Comer. Alt. 5,250 ft.		
Soil	3	3
Sand and boulders.	45	48
Sand and fine gravel	39	87
Sand and gravel.	7	94
Sand	22	116
Sand and gravel.	20	136

Table 8.--Summary of estimated well discharge, in acre-feet, calendar year 1965

Ground-water district.--See plate 1 for location.

Use of water.--Public supply includes water used by municipalities, public water supply companies, schools, hospitals, and hotels.

Use of water	Ground-water district						
	East Bench	East Lake Plain	Cotton-woods	South-east	West slope	North-west Lake Plain	Total (rounded)
Industry	800	3,900	1,800	100	500	32,500	39,600
Public supply	3,600	2,000	15,500	100	1,500	2,200	24,900
Irrigation	100	0	200	200	2,500	0	3,000
Air conditioning	200	600	20	20	0	10	800
Domestic, stock, fish, and fur culture	100	10,000	9,000	100	5,000	10,000	34,200
Total (rounded)	4,800	16,500	26,500	500	9,500	44,700	102,000

Table 9.--Chemical analyses of water from selected wells, springs, and trenches

Sodium and potassium.--Sodium (Na) and potassium (K) values are calculated and reported as sodium.

Dissolved solids.--Dissolved solids values greater than 1,000 parts per million are calculated from determined constituents, those less than 1,000 parts per million are residue on evaporation at 180°C.

Remarks.--Records of these wells given in table 5 or in Utah Basic-Data Release No. 11, table 12.

Chemical analyses, in parts per million, calendar year 1965

Well number	Date of collection	Temperature (°F)	Silica (SiO_2)	Iron (Fe)	Manganese (Mn)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Boron (B)	Dissolved solids	Hardness as $CaCO_3$	Noncarbonate hardness as $CaCO_3$	Percent sodium	Sodium adsorption ratio	Specific conductance (micromhos/cm at 25°C)	pH
(A-1-2)16dac-1	9-21-65	45	13			439	108	67		296	0	1,360	19	--	0.2	--	2,150	1,540	1,300	9	0.7	2,380	8.0
27bdd-3	9-10-65	54	1.7			867	526	4,280		15	0	444	9,310	--	16	--	15,500	4,330	4,310	68	28	24,800	6.9
27bdd-4	9-10-65	52	16			81	27	33		359	0	34	39	--	.0	--	456	313	19	19	.8	701	7.9
32dad-2	9-20-65	--	13			99	44	31		390	0	58	81	--	.7	--	608	428	108	14	.6	913	7.8
33aaa-2	9-10-65	47	11			94	39	29		408	0	51	49	--	.9	--	524	394	59	14	.6	829	8.0
(B-1-1)16ccc-1	5-25-65	60	50			28	22	601		584	0	6.6	695	--	.6	--	1,680	160	0	89	21	3,100	7.7
19bab-1	2-18-65	76	25			32	18	274		256	0	3.3	382	--	.0	--	890	156	0	79	9.6	1,590	7.4
20bab-1	2-18-65	59	20			5.6	3.9	309		545	0	96	108	--	3.2	--	822	30	0	96	25	1,300	7.8
23aca[a]	11-10-65	83	26			349	63	2,110		194	0	668	3,440	--	3.1	--	6,750	1,130	971	80	27	11,400	7.7
23bdd-1	11-10-65	87	29			668	157	3,660		265	0	919	6,440	--	2.8	--	12,000	2,310	2,100	77	33	19,500	7.8
23bdd-2	11-10-65	64	26			587	127	2,570		313	0	1,150	4,340	--	1.7	--	8,960	1,980	1,730	74	25	14,800	7.9
23dbb[a]	11-10-65	78	25			609	126	3,100		300	0	1,030	5,290	--	7.8	--	10,300	2,040	1,790	77	30	16,900	7.8
(B-1-2)7ccc-1	9- 2-65	62	20			84	72	1,530		215	0	312	2,360	--	.2	--	4,480	505	329	87	30	7,980	7.3
7dcb-1	9- 2-65	62	20			108	100	995		201	0	108	1,820	--	.3	--	3,250	680	515	76	17	6,000	7.7
8abd-1	2-16-65	66	25			29	17	289		192	0	6.2	428	--	.3	--	904	140	0	82	17	1,650	7.6
	9-15-65	66	21			11	18	292		57	51	3.9	425	--	.2	--	890	100	0	86	13	1,690	9.6
11dca-4	2-17-65	67	23			11	11	210		408	0	1.0	138	--	.7	--	612	74	0	86	11	1,020	7.7
15bcb-2	2-17-65	67	23			11	8.3	165		290	0	1.4	128	--	1.0	--	495	62	0	85	9.1	841	7.6
19aca-1	2-11-65	63	21			13	5.8	471		408	20	107	425	--	.3	--	1,260	56	0	95	27	2,200	8.7
23bbd-1	2-10-65	60	22			14	11	339		388	0	3.3	350	--	1.4	--	952	80	0	90	16	1,670	7.8
25cda-5	2-17-65	77	23			49	29	297		184	0	3.3	518	--	.2	--	1,010	240	89	73	8.3	1,890	7.7
28cad-1	2-11-65	52	37			12	8.3	345		316	0	52	354	--	.8	--	1,000	64	0	92	19	1,700	7.9
30abc-1	2-11-65	64	34			38	29	626		236	0	108	900	--	.4	--	1,850	216	22	86	19	3,270	7.8
33cca-1	2-18-65	66	50			25	16	562		264	0	56	760	--	.2	--	1,600	126	0	91	22	2,850	7.8
36baa-1	2-17-65	82	45			188	63	982		168	0	44	1,900	--	2.6	--	3,310	730	592	75	16	5,910	7.6
(C-1-1)9aab-1	2-20-65	56	20			29	18	81		222	0	77	40	--	4.3	--	379	146	0	55	2.9	607	8.0
18ddd-2	2-19-65	69	37			51	28	169		144	0	86	285	--	1.0	--	771	244	126	60	4.7	1,250	7.5
20bdd-1	2-28-65	--	--			--	--	113		216	0	143	127	--	--	--	590	260	83	49	3.0	904	7.5
	b3-12-65	--	--			--	--	95		164	0	144	117	--	--	--	616	244	110	46	2.6	864	7.3
	c3-12-65	--	--			--	--	91		150	0	109	71	--	--	--	406	138	15	59	3.4	650	7.7
	4- 8-65	74	29			32	13	84		146	0	103	63	0.5	.1	0.08	393	135	15	57	3.1	628	7.8
24bbd-2	6- 8-65	61	19			82	25	51		243	0	177	22	--	.5	--	496	305	106	27	1.3	758	7.8
25acb-3	6- 8-65	--	19			51	16	48		206	0	82	28	--	.4	--	339	190	21	35	1.5	566	7.7
25ccb-2	7-15-65	56	15			53	18	9.8		182	0	62	11	--	.0	--	251	208	59	9	.3	425	8.1
30dca-1	5- 4-65	56	39			84	80	376		354	0	401	455	--	9.8	--	1,620	540	250	60	7.0	2,610	8.2
33abb-1	2-23-65	56	46			40	24	58		186	0	51	83	--	4.5	--	400	200	47	39	1.8	670	7.7
35aaa-4	2-23-65	53	15			55	21	12		196	0	69	12	--	.4	--	288	224	63	10	.3	450	7.7
	9-10-65	55	15			59	18	13		195	0	72	12	--	.0	--	303	223	63	12	.4	462	7.3
(C-1-2)22bdd-4	7-15-65	54	53			53	27	277		293	0	182	290	--	5.4	--	1,030	241	1	71	7.8	1,740	7.9
22cbb-1	2-23-65	60	53			32	18	296		276	0	146	292	--	5.3	--	1,000	152	0	81	10	1,620	7.9
28aaa	d9- 7-65	62	47			152	95	316		445	0	484	412	--	7.9	--	1,730	770	405	47	4.9	2,670	7.6
28aaa-3	9- 8-65	54	46			118	80	325		408	0	436	380	--	9.8	--	1,600	625	290	53	5.7	2,500	7.8
32aab-1	9- 7-65	61	36			63	115	238		458	0	388	258	--	4.1	--	1,330	630	254	45	4.1	2,090	7.9
(C-2-1)12bac-1	2-24-65	55	11			25	9.5	8.9		112	0	18	6.6	--	.5	--	140	101	9	16	.4	234	7.5
24bcd-1	8- 5-65	64	11			28	11	61		95	0	69	68	--	1.5	--	296	114	36	54	2.5	531	7.0
(C-2-2)5aac-2[e]	9- 2-65	62	--			--	--	----		--	--	--	--	--	12	--	--	--	--	--	--	1,120	--
5aac-3[e]	3- 3-65	41	26			79	30	103		182	0	125	172	--	28	--	665	320	171	41	2.5	1,100	7.6
	9- 2-65	60	--			--	--	--		--	--	--	--	--	34	--	--	--	--	--	--	1,250	--
5ada-1[e]	9- 2-65	62	--			--	--	--		--	--	--	--	--	651	--	--	--	--	--	--	2,840	--
(C-3-1)12ccb-1	2-25-65	69	32			57	35	84		234	0	104	118	--	.3	--	567	284	92	39	2.2	898	7.6
20ddb-1	7-12-65	56	25			333	94	119		377	0	667	330	--	6.2	--	1,760	1,220	906	18	1.5	2,530	7.6
31aaa-1	8-18-65	54	26			117	24	86		348	0	152	92	--	6.7	--	691	392	107	32	1.9	1,070	7.8

See footnotes at end of table.

Table 9.--Chemical analyses of water from selected wells, springs, and trenches--Continued

Chemical analyses, in parts per million, calendar year 1965

Well number	Date of collection	Temperature (°F)	Silica (SiO_2)	Iron (Fe)	Manganese (Mn)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Boron (B)	Dissolved solids	Hardness as $CaCO_3$	Noncarbonate hardness as $CaCO_3$	Percent sodium	Sodium adsorption ratio	Specific conductance (micromhos/cm at 25°C)	pH
(C-3-1)31cbb-1	7-12-65	57	49			148	34	46		286	0	79	208	--	.5	--	799	510	275	16	.9	1,210	7.6
31ccb-1	7-12-65	56	47			122	34	39		254	0	58	184	--	1.5	--	709	444	236	16	.8	1,090	7.6
(C-3-2)14bcd-1	8-12-65	56	23			214	62	67		202	0	499	175	--	5.5	--	1,140	790	624	16	1.0	1,600	7.6
26ccc-1	7-12-65	54	32			215	52	69		351	0	293	208	--	14	--	1,060	748	460	17	1.1	1,660	7.5
33cac-1	7-12-65	58	35			156	44	26		304	0	236	94	--	.6	--	785	570	321	9	.5	1,130	7.6
34dbd-1	7-12-65	49	20			160	51	30		236	0	387	56	--	.4	--	830	610	416	10	.5	1,170	7.6
35abc-1	7-12-65	56	31			231	50	46		323	0	183	292	--	17	--	1,010	780	515	11	.7	1,710	7.7
35bdc-1	7-12-65	54	30			216	15	124		326	0	158	302	--	14	--	1,020	600	337	13	2.2	1,720	7.5
(C-4-1)5acb-1	7-12-65	55	45			232	55	70		390	0	256	260	--	5.9	--	1,120	805	485	16	1.1	1,830	7.4
6acb-1	7-12-65	58	56			96	24	49		272	0	46	124	--	.1	--	541	340	117	24	1.1	870	7.6
15bdc-1	7-12-65	64	62			150	84	64		208	0	206	332	--	6.1	--	1,010	720	549	29	1.0	1,740	7.4
15bdc-2	7-12-65	66	63			104	37	77		181	0	85	238	--	9.6	--	807	412	264	29	1.7	1,240	7.5
23dbb-1	11- 8-65	60	27			80	41	93		290	0	165	115	--	1.6	--	666	370	132	35	2.1	1,090	7.8
(D-1-1)1ccd-1	9-10-65	55	14			107	35	23		350	0	115	36	--	2.3	--	563	410	123	11	.5	813	7.8
1dbd-4	9-10-65	60	11			86	17	24		311	0	44	25	--	.3	--	381	284	29	16	.6	611	7.7
7abd-6	7-14-65	55	18			128	40	29		322	0	186	53	--	18	--	625	485	221	11	.6	960	7.7
15bdc-1	7-14-65	--	22			77	38	47		290	0	116	60	--	9.3	--	512	348	110	23	1.1	842	7.6
19cdb-17	2-25-65	56	15			107	39	43		279	0	234	30	--	8.8	--	645	428	199	18	.9	900	7.5
19dbc-1	6- 9-65	--	18			86	34	69		214	0	229	62	--	.1	--	608	352	177	30	1.6	922	7.7
30acc-7	6- 8-65	62	15			72	23	48		222	0	158	23	--	.3	--	454	275	93	27	1.3	702	7.8
(D-2-1)5aba-2	2-23-65	47	5.3			45	21	13		146	0	85	14	--	.6	--	274	200	80	12	.4	423	7.7
7cbd-4	2-23-65	53	11			35	12	7.9		132	0	27	9.8	--	3.8	--	178	136	28	11	.3	294	7.4
7dda-1	2-28-65	51	7.4			22	8.8	8.8		101	0	17	6.0	--	.2	--	127	90	7	17	.4	221	7.6
33add-4	7-15-65	54	11			48	10	17		180	0	34	6.3	--	7.9	--	208	162	14	18	.6	366	7.5
(D-3-1)6bad-1	8-17-65	--	9.8			32	5.6	5.5		89	0	25	11	--	2.0	--	141	104	31	10	.2	231	7.4
6cba-1	8-17-65	--	12			21	4.1	10		93	0	4.5	8.2	--	.3	--	110	70	0	24	.5	175	7.3
12acd-1	8-17-65	48	9.0			34	4.4	5.6		95	0	20	9.5	--	2.6	--	131	102	24	11	.2	231	7.1
12adc-1	8-17-65	48	9.3			31	5.1	5.5		91	0	21	9.1	--	2.0	--	140	99	24	11	.2	220	7.2
12bdc-1	8-17-65	45	8.2			24	4.1	4.0		66	0	20	6.0	--	1.7	--	109	76	22	10	.2	169	7.2
12cab-1	8-17-65	47	9.5			34	5.6	6.5		93	0	28	11	--	1.7	--	137	108	32	12	.3	242	7.1

a Sample collected from open trench.
b Sample collected while casing was perforated at 726-915 feet.
c Sample collected while casing was perforated at 607-612, 619-665, 726-915 feet.
d Sample is composite of water from wells (C-1-2)28aaa-4, 28aaa-5, 28aaa-6, and 28aaa-7.
e Spring.

Table 10.--Specific conductance of water from selected wells

Remarks.--Records of these wells given in table 5 or in Basic-Data Release No. 11, table 12. Chemical analyses of water from wells designated by "a" after the well number given in table 9; from those designated by "b" given in Utah Basic-Data Release No. 11, table 16.

Well number	Date of collection	Temperature (°F)	Specific conductance (micromhos at 25°C)
(B-1-1)16ccc-1 a	9- 8-65	--	2,970
19baa-2	9- 8-65	61	1,060
19baa-3	9- 8-65	65	1,500
19baa-5	9- 8-65	68	1,460
19bab-1 a	7-15-64	74	1,610
	9- 4-64	76	1,580
	9- 8-65	79	1,610
20bab-1 a	9- 4-64	60	1,300
	9- 8-65	60	1,300
(B-1-2)2dac-1	9-10-65	68	855
2dac-2 b	2-26-65	79	833
	9-10-65	79	943
7ccc-1 a	7-26-65	62	8,060
8abd-1 a,b	9- 1-64	66	1,650
11dca-4 a	9-17-65	66	1,040
13cca-1	9- 7-65	66	1,240
15bcb-2 a,b	2-26-64	--	844
	9- 8-64	68	839
	9- 7-65	68	873
15daa-1	9-10-65	61	973
19aca-1 a	9- 1-64	64	2,190
	9- 3-65	63	2,200
22cdb-1	9- 3-65	60	1,600
23bbd-1 a	9- 9-65	61	1,660
25cda-1	8-31-64	77	1,890
25cda-5 a	9- 3-65	78	1,920
25cdd-1	8-31-64	65	1,350
28cad-1 a	9- 3-65	58	1,720
29daa-1	9- 3-65	67	1,710
29daa-2	9- 3-65	66	2,190
30abc-1 a	2-26-64	64	3,310
	9- 1-64	65	3,260
	9- 3-65	64	3,370
31aad-1	9- 2-65	63	4,230
33cca-1 a	2-26-64	66	2,880
	9- 1-64	62	2,840
	9-10-65	66	2,910
36baa-1 a,b	4-27-64	80	6,220
	8-31-64	82	6,200
	10-27-64	82	5,560
	6-28-65	81	6,360
	9- 3-65	82	6,350
(B-1-3)24bdd-1	9- 3-65	67	7,670
(C-1-1)9aab-1 a	2-26-64	--	608
	9-10-65	57	621
18ddd-2 a,b	2-26-64	--	1,260
	4-27-64	69	1,270
	10-27-64	70	1,240
	6-28-65	70	1,260
25ccb-2 a	2-27-64	--	413
	9- 3-64	56	425
	2-25-65	56	411
33abb-1 a,b	2-26-64	--	634
	4-27-64	51	631
	9- 3-64	58	652
	10-27-64	60	649
	6-27-65	58	654
35aaa-4 a,b	2-26-64	--	457
	9- 2-64	55	450
(C-1-2)22cbb-1 a	2-26-64	--	1,630
	4-27-64	60	1,610
	10-27-64	60	1,610
	7-27-65	60	1,650
24acd-1	7-14-64	63	1,630
24bdc-1	7-14-64	64	2,360
	9- 9-65	64	2,380
24bdd-1	9- 9-65	58	2,170
24dad-1	9- 9-65	63	1,970
(C-2-1)12bac-1 a,b	9- 2-64	55	234
(C-2-2)14bbc-1	4- 5-65	--	2,000
(C-3-1)12ccb-1 a,b	2-28-64	--	903
	4-28-64	69	904
	9- 2-64	69	897
	10-28-64	69	890
15dda-1 b	4-27-64	52	625
	9- 3-64	55	677
(D-1-1)7abd-6 a,b	4-28-64	55	935
	9- 2-64	56	920
	10-29-64	54	920
	2-25-65	55	927
19cdb-17 a,b	2-26-64	--	904
	4-28-64	55	901
	9- 2-64	56	898
30aca-23	2-26-64	--	720
	4-28-64	57	726
30acc-7 a	2-26-64	61	646
(D-2-1)7cbd-4 a,b	2-28-64	--	285
	4-28-64	54	289
	9- 2-64	56	291
8ccd-19 b	2-28-64	--	142

Table 11.--Radiochemical analyses of water from selected wells

Well number	Date of collection	Pumping period (hours)	Perforations (feet)	Temperature (°F)	Specific conductance (micromhos at 25°C)	Radium (Ra) (picocuries per liter)	Uranium (U) (micrograms per liter)
(A-1-1)31ccc-2	5-26-65	0.5	--	56	2,020	0.3 ± 0.1	2.5 ± 0.4
	5-26-65	8.0	--	56	2,080	.2 ± .1	1.6 ± .4
31ccc-4	5- 5-65	.1	524-592	58	2,100	.2 ± .1	.4
	5- 5-65	7.5	do	58	4,100	.3 ± .1	.4
	5-12-65	1.0	415-592	57	1,440	.3 ± .1	.4
	5-13-65	24	do	57	1,710	.9 ± .2	.4
	5-14-65	58	do	57	1,760	.4 ± .1	.4
	5-17-65	123	do	57	1,800	1.2 ± .2	.4

Table 12.--Chemical analyses of water from streams at miscellaneous sites

Sampling site.--If not described herein, the location of sampling site is given in the table indicated by the number in parenthesis.

Discharge.--m, measured discharge; d, daily mean discharge; e, estimated discharged.

Sodium and potassium.--Sodium (Na) and potassium (K) values are calculated and reported as sodium.

Dissolved solids.--Dissolved solids values greater than 1,000 parts per million are calculated from determined constituents; those less than 1,000 parts per million are residue on evaporation at 180°C.

Chemical analyses, in parts per million, water year October 1964 to September 1965

Station no.	Sampling site	Date of collection	Temperature (°F)	Discharge (cfs)	Silica (SiO_2)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Hardness as $CaCO_3$: Calcium, Magnesium	Hardness as $CaCO_3$: Noncarbonate	Sodium adsorption ratio	Specific conductance (micromhos at 25°C)	pH
1670 A	Provo Reservoir Canal (18)	7-26-65	63	115m	7.3	44	9.0	6.0		140	0	32	7.7	1.4	173	0.24	53.7	147	32	0.2	311	7.6
		8-11-65	62	134m	7.9	43	9.2	5.0		142	0	30	5.9	1.2	165	.22	59.7	146	30	.2	293	7.6
1670 B	Utah Lake Distributing Canal (18)	8-11-65	77	83d	18	71	56	165		232	0	285	198	.5	884	1.20	198	408	218	3.5	1,440	7.8
1670 F	Jordan and Salt Lake City Canal (20)	8-11-65	77	62d	18	72	55	158		230	0	273	198	.5	886	1.20	148	408	219	3.4	1,450	7.8
1670 H	Galena Canal (20)	8-11-65	77	6d	27	123	70	206		294	0	357	302	2.8	1,230	1.67	19.9	594	353	3.7	1,990	7.7
1670 I	Beckstead Ditch (20)	8-11-65	77	2d	37	172	77	228		350	0	410	370	5.4	1,470	2.00	7.94	745	458	3.6	2,250	7.9
1670 L	Jordan River (17)	8-11-65	77	3.9m	31	96	60	190		292	0	304	245	.9	1,070	1.46	11.3	488	249	3.7	1,710	7.7
1670 M	Rose Creek (17)	5-14-65	58	1.4m	45	76	22	41		226	4	78	72	2.1	470	.64	1.78	286	94	1.1	728	8.4
		8-30-65	--	1.0e	7.0	40	8.8	6.4		136	0	29	5.6	.5	186	.25	.50	136	24	.2	285	7.2
1670 N	Corner Creek (17)	10-30-64	53	.5m																	324	
		5-14-65	52	4.2m	16	21	5.8	9.1		78	0	20	7.7	.2	118	.16	1.34	76	12	.5	197	7.6
1670 P	Draper Irrigation Company Ditch (17)	10-30-64	--	1.8m																	123	
		5-14-65	52	3.0m	8.3	18	3.4	7.0		65	0	11	5.8	.3	77	.10	.62	58	5	.4	137	7.3
1670 Q	Butterfield Creek (17)	10-30-64	50	1.6m																	1,440	
		5-14-65	52	2.9m	4.2	147	.70	38		186	0	516	34	1.7	935	1.27	7.32	656	503	.6	1,210	8.0
1670 R	Keystone Gulch (17)	10-30-64	65	1.8m																	1,090	
		5-14-65	68	2.5m	18	216	96	60		20	0	920	65	1.5	1,390	1.89	9.38	935	919	.9	1,660	6.9
1670 S	Jordan River (17)	8-12-65	68	103m	33	192	92	266		354	0	567	392	5.5	1,720	2.34	478	860	570	3.9	2,540	7.8
1670 T	Bells Canyon Irrigation Company Ditch (17)	10-30-64	46	.5m																	43	
1670 U	Butterfield Creek above Butterfield tunnel	9- 8-65	54	.5e	16	67	18	44		310	0	35	34	.9	364	.50	.49	243	0	1.2	591	8.1
1670 V	Butterfield tunnel	9- 8-65	56	1.5e	9.4	226	102	34		136	0	877	25	.1	1,340	1.82	5.43	985	873	.5	1,630	7.4
1670 W	Unnamed ditch at 10600 South at Jordan River	8-12-65	68	2.0e	32	180	80	239		352	0	480	360	4.2	1,550	2.11	8.37	780	491	3.7	2,350	7.8
1672 B	Bingham Creek (17)	10-13-64	51	.5e																	7,800	
		10-30-64	44	.5m																	25,200	
1672 C	Bingham Canal (17)	9- 8-65	69	.5e																	16,600	3.1
1672 F	Bingham Creek at Redwood Road	1-15-65	32	3.0e	25	133	94	257		722	0	236	310	1.7	1,410	1.92	11.4	718	126	4.2	2,190	7.8
1673 D	Suburban Sanitary District sewer outfall at culvert on 8th West (900 West) Street	8-12-65	70	18e	17	103	43	141		272	0	240	178	17	878	1.19	42.7	432	209	2.9	1,520	6.9
1675 R	Willow Creek (17)	5-17-65	50	7.3m																	86	
1675 U	Little Cottonwood Creek at Peruvian Lodge	7-15-65	44	15e	3.4	26	6.3	1.0		91	0	16	2.1	0.1	100	.14	4.05	92	17	0.0	179	7.1

Table 12.--Chemical analyses of water from streams at miscellaneous sites--Continued

Chemical analyses, in parts per million, water year October 1964 to September 1965

Station no.	Sampling site	Date of collection	Temperature (°F)	Discharge (cfs)	Silica (SiO_2)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Hardness as $CaCO_3$: Calcium, Magnesium	Hardness as $CaCO_3$: Noncarbonate	Sodium adsorption ratio	Specific conductance (micromhos at 25°C)	pH
1677 E	Little Cottonwood Creek (17)	9-14-65	60	9.6m																	1,190	
1677 F	Little Cottonwood Creek (17)	9-14-65	61	1.2m																	1,080	
1677 G	Little Cottonwood Creek at bridge at at 6600 South near Murray	10-10-64	62	10e	12	58	48	146		206	0	221	183	.0	797	1.08	21.5	340	171	3.4	1,270	7.6
		5- 6-65	52	55e				121		198	0	196	150		699	.95	104	315	153	3.0	1,100	8.0
		6- 1-65	64	200e											296	.40	160				500	
		9-14-65	66	2.0e																	1,000	
1680	Little Cottonwood Creek (17)	8-12-65	76	11e	16	72	51	234		233	0	234	172	2.0	816	1.14	24.2	388	197	2.9	1,310	7.8
		9-14-65	65	9.4m																	1,210	
1685 P	Hughes Creek (17)	5-17-65	48	6.0m																	98	
1685 Q	Big Cottonwood Creek at Brighton	7-15-65	42	10e	7.4	6.4	.2	3.9		17	0	7.8	2.4	.1	32	.04	.86	17	3	.4	44	7.0
1688 E	Big Cottonwood Creek (17)	9-13-65	64	6.3m																	925	
1690	Spring Run (17)	9-13-65	61	15m	.4	46	37	64		214	0	123	73	.0	500	.68	20.2	267	92	1.7	852	8.2
1695	Big Cottonwood Creek (17)	8-12-65	72	30e	13	75	45	102		257	0	191	130	1.3	696	.95	56.4	372	161	2.3	1,140	8.0
1698	Mill Creek (38)	10-12-64	46	5.1m	6.8	91	28	8.5		216	0	163	10	.3	445	.61	6.13	342	165	.2	619	7.7
		2-17-65	39	3.8m	11	65	21	21		286	0	19	29	.2	307	.42	3.15	250	15	.6	518	8.0
		5-19-65	44	23m	8.3	66	19	7.6		205	0	79	5.9	.3	283	.38	17.6	242	74	.2	474	8.2
1702 E	Mill Creek at 8th West Street (900 West)	8-12-65	71	3.0e	13	99	44	79		268	0	227	98	7.8	719	.98	5.82	428	208	1.7	1,110	7.8
1719	Emigration Creek (50)	2-17-65	33	12d	10	83	16	14		279	0	43	20	.1	332	.45	10.8	270	41	.4	519	8.2
		5-19-65	48	20m	9.2	78	13	7.4		267	0	30	8.6	.2	274	.37	14.8	246	27	.2	479	8.2
1719 C	Burr Fork, 0.4 mile above Emigration Creek below Burr Fork gage, 1719	9-13-65	51	1.5e	10	35	21	63		268	0	72	12	.1	324	.44	1.31	175	0	2.1	556	7.9
1719 F	Emigration Creek, about 0.4 mile below gage at Emigration Creek below Burr Fork, 1719	9-10-65	53	1.0e																	540	
1719 H	Emigration Creek, about 2 miles above gage at Emigration Creek near Salt Lake City, 1720	9-10-65	54	2.0e																	665	
1719 I	Emigration Creek, about 1.3 miles above gage at Emigration Creek near Salt Lake City, 1720	9-10-65	55	3.0e																	632	
1724 A	City Creek (59)	6-24-65		15e						218	0							202	23		376	7.6
1726 B	Outflow from Lake Front Duck Club's property (17) Weir no. 3	5- 7-65	48	12m	3.0	88	74	288		216	0	364	420	4.2	1,350	1.84	43.7	525	348	5.5	2,240	7.6
	Weir no. 4	5- 7-65	48	26m	15	80	62	259		202	0	315	370	4.1	1,200	1.63	84.2	455	289	5.3	1,990	7.8

Table 12.--Chemical analyses of water from streams at miscellaneous sites--Continued

Chemical analyses, in parts per million, water year October 1964 to September 1965

Station no.	Sampling site	Date of collection	Temperature (°F)	Discharge (cfs)	Silica (SiO_2)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Hardness as $CaCO_3$: Calcium, Magnesium	Hardness as $CaCO_3$: Noncarbonate	Sodium adsorption ratio	Specific conductance (micromhos at 25°C)	pH
1726.4	Lee Creek (17)	10-13-64	62	2.1e	26	165	7,530	44,900		418	0	16,900	78,700	8.0	148,000	201	839	31,400	31,000	110	140,000	7.6
		3- 3-65	52	4.1e																	58,300	
		3-22-65	47	3.5e																	32,000	
		4-14-65	77	2.5e																	98,100	
		6-28-65	64	22e																	109,000	
		7-26-65	76	15m																	129,000	
		8-16-65	74	18e																	74,800	
		9-20-65	52	23e																	93,200	
1726.6	Garfield Drain at bridge on Highway 40, 5.8 miles northwest of Magna	10-13-64	70		50	425	73	1,620		(a)		3,760	2,700	10	8,700	11.8	28.2	1,360	1,360	19	21,600	1.4
		3-22-65	72																		13,500	
		4-14-65	75																		13,900	
		5-19-65	79	1.2e																	18,200	
		6-28-65	76																		18,100	
		7-26-65	84																		15,500	
		8-16-65	89																		16,500	

a Acidity as H_2SO_4, 1,270 ppm.

Table 13.--Chemical analyses of water from streams at or near gaging stations

Sodium and potassium.--Sodium (Na) and potassium (K) values are calculated and reported as sodium.

Dissolved solids.--Dissolved solids values greater than 1,000 parts per million are calculated from determined constituents, those less than 1,000 parts per million are residue on evaporation at 180° C.

Locations.--Locations of sampling sites at gaging stations are given in tables 18 to 63. Others are given below.

Chemical analyses, in parts per million, water year October 1964 to September 1965

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Boron (B)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Hardness as $CaCO_3$: Calcium, Magnesium	Hardness as $CaCO_3$: Noncarbonate	Sodium adsorption ratio	Specific conductance (micromhos at 25°C)	pH	Temperature (°F)
1670. Jordan River at narrows, near Lehi																						
Records available.--November 1963 to September 1965.																						
Oct. 13, 1964	59	16	57	69	215		228	0	311	270		0.8		1,050	1.43	167	426	239	4.5	1,670	7.8	53
Nov. 19	20	22	101	79	213		279	0	414	270		1.9		1,240	1.69	67.0	578	349	3.9	1,870	7.7	40
Jan. 26, 1965	26	22	99	89	229		310	0	431	286		1.3		1,310	1.78	92.0	610	356	4.0	1,990	8.0	36
Feb. 16	20	30	152	97	280		368	0	542	370		1.6		1,650	2.24	89.1	780	478	4.4	2,420	7.6	32
Mar. 19	15	1.2	87	124	301		336	0	549	376		1.8		1,600	2.18	64.8	724	448	4.9	2,440	8.0	39
May 19	166	13	64	54	152		238	0	256	178		3.8		855	1.16	383	384	189	3.4	1,360	7.7	65
June 24	160	14	72	61	161		248	0	279	204		.1		930	1.26	402	432	229	3.4	1,500	7.5	67
July 26	103	16	70	54	143		228	0	250	185		.5		877	1.19	244	398	211	3.1	1,390	7.6	75
Aug. 11	136	17	67	56	159		230	0	267	198		.1		903	1.23	332	400	211	3.5	1,440	7.7	--
Sept. 21	3.4	14	63	55	145		243	0	249	170		.0		896	1.22	8.23	382	183	3.2	1,310	8.2	51
1675. Little Cottonwood Creek near Salt Lake City																						
Location.--At Utah Power and Light Company's powerplant, 2 miles upstream from gaging station at mouth of canyon, and 15 miles southeast of Salt Lake City. Records available.--November 1963 to September 1965.																						
Oct. 12, 1964	11	5.8	35	7.1	12		114	0	34	8.6		2.9		164	0.22	4.87	117	24	0.5	261	7.4	51
Jan. 20, 1965	14	9.9	41	8.0	10		105	0	52	11		1.2		193	.26	7.30	135	49	.4	302	8.0	38
Feb. 16	14	6.8	31	6.6	4.7		82	0	37	5.9		.2		133	.18	5.03	104	37	.2	222	7.6	--
Mar. 22	16	7.1	33	6.6	15		102	0	41	11		.6		152	.21	6.57	110	26	.6	231	7.5	37
Apr. 14	10	7.3	34	6.8	3.4		80	0	38	10		.1		145	.20	3.92	112	46	.1	236	7.5	45
May 19	230	4.6	18	4.4	5.0		45	0	21	9.9		.2		80	.11	49.7	62	25	.3	150	7.6	43
June 24	406	4.5	17	3.9	4.6		63	0	13	2.5		.4		66	.09	72.3	59	7	.3	105	7.3	40
July 15	223	3.7	15	2.9	2.3		44	0	14	3.1		.1		62	.08	37.3	50	14	.1	107	6.8	50
Sept. 21	37	5.8	26	5.6	5.4		71	0	32	5.0		.1		132	.18	13.2	87	29	.2	192	7.3	42
1685. Big Cottonwood Creek near Salt Lake City																						
Location.--At bridge on Utah Highway 152 at Maxfield's Lodge, 2.5 miles upstream from gaging station at mouth of canyon, and 12 miles southeast of Salt Lake City. Records available.--November 1963 to September 1965.																						
Oct. 12, 1964	4.7	6.8	34	11	8.0		126	0	33	8.9		0.2		168	.23	2.13	133	30	0.3	275	7.8	49
Nov. 19	25	7.2	50	7.3	24		177	0	50	6.4		.5		228	.31	15.4	155	10	.8	366	8.0	36
Jan. 26, 1965	27	6.9	42	14	8.8		147	0	45	10		1.0		199	.27	14.5	163	42	.3	330	7.9	32
Feb. 16	30	7.0	46	17	7.6		161	0	48	13		.3		226	.31	18.3	184	52	.2	361	7.8	32
Mar. 19	28	7.8	51	17	9.8		164	0	52	20		.8		245	.33	18.5	196	62	.3	383	8.0	33
Apr. 14	37	7.3	46	16	8.3		150	0	44	22		.4		225	.31	22.5	182	59	.3	373	8.1	56
May 19	264	6.2	24	8.3	4.3		87	0	19	8.6		.1		111	.15	79.1	94	23	.2	205	7.7	44
June 24	297	5.1	23	5.8	1.4		79	0	13	4.0		.2		93	.13	74.6	81	16	.1	160	7.6	45
July 15	124	5.4	27	7.8	2.0		96	0	19	4.1		.1		109	.15	36.5	100	21	.1	202	7.7	51
Sept. 21	38	1.3	33	9.5	4.0		115	0	27	4.9		.5		155	.21	15.9	121	27	.2	244	7.8	44

Table 13.--Chemical analyses of water from streams at or near gaging stations--Continued

Chemical analyses, in parts per million, water year October 1964 to September 1965

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Boron (B)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Hardness as $CaCO_3$: Calcium, Magnesium	Hardness as $CaCO_3$: Noncarbonate	Sodium adsorption ratio	Specific conductance (micromhos at 25°C)	pH	Temperature (°F)
1700. Mill Creek near Salt Lake City																						
Records available.--November 1963 to September 1965.																						
Oct. 12, 1964	5.6	8.4	87	27	6.9		240	0	135	5.5		0.3		427	0.58	6.46	330	133	0.2	600	7.7	48
Nov. 19, 1964	5.6	7.0	87	27	12		246	0	139	7.3		0.1		421	0.57	6.37	330	128	0.3	613	8.2	40
Jan. 26, 1965	4.0	8.4	88	30	9.0		244	0	143	8.6		.4		441	.60	4.76	342	142	.2	618	8.1	40
Feb. 17	5.6	7.8	90	27	11		240	0	140	12		.2		419	.57	6.34	336	139	.3	606	8.0	39
Mar. 19	5.8	8.3	84	25	12		239	0	121	12		.7		396	.54	6.20	314	118	.3	573	8.1	--
Apr. 14	8.7	8.5	88	24	12		240	0	127	12		.1		392	.53	9.21	320	123	.3	584	8.2	49
May 19	39	8.6	74	19	8.0		226	0	80	7.8		.3		304	.41	32.0	262	77	.2	510	7.9	47
June 28	28	8.4	74	19	3.2		212	0	79	9.0		1.5		302	.41	22.8	262	88	.1	496	7.8	52
July 27	14	8.8	82	23	3.2		223	0	104	10		.1		354	.48	13.4	298	115	.1	549	7.7	--
Aug. 16	11	8.5	84	24	4.8		226	0	114	9.5		.5		352	.48	10.5	307	122	.1	557	8.2	58
Sept. 20	9.6	5.8	84	24	8.5		233	0	121	8.0		.2		392	.53	10.2	310	119	.2	578	8.1	44
1707. North Point Consolidated Canal below Goss flume, at Salt Lake City																						
Records available.--September 1964 to September 1965.																						
Sept. 11, 1964	51	13	122	69	221		284	0	389	300		8.8		1,260	1.71	174	586	353	4.0	1,930	8.2	64
Oct. 13	38	21	140	68	200		290	0	357	315		15		1,260	1.71	129	630	392	3.5	2,010	8.1	61
Apr. 15, 1965	1.0																			1,980		--
June 28	66																			1,260		59
July 26	65																			1,770		69
Aug. 16	61																			1,870		74
Sept. 20	41																			1,720		55
1708. Surplus Canal at Cohen flume, near Salt Lake City																						
Records available.--October 1963 to September 1965.																						
Oct. 13, 1964	107	21	140	71	230		324	0	398	320		10		1,350	1.84	390	640	374	3.9	2,050	7.6	62
Oct. 15	135																			2,050		57
Nov. 24	64	20	152	64	195		310	0	349	315		8.2		1,260	1.71	218	644	390	3.3	1,980	7.2	43
Dec. 11	115																			1,950		42
Dec. 16	93																			1,940		40
Feb. 12, 1965	153																			2,190		38
Feb. 21	122																			2,200		45
Mar. 4																				2,050		42
Mar. 22	92	20	119	88	227		325	0	409	321		6.1		1,350	1.84	335	658	392	3.8	2,080	7.6	47
Apr. 15	113																			1,980		--
May 7	145																			1,330		47
May 18																				1,200		55
July 26	174																			1,830		69
Aug. 16	112																			1,910		74
Sept. 20	100																			1,750		53

Table 13.--Chemical analyses of water from streams at or near gaging stations--Continued

Chemical analyses, in parts per million, water year October 1964 to September 1965

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Boron (B)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Hardness as $CaCO_3$: Calcium, Magnesium	Hardness as $CaCO_3$: Noncarbonate	Sodium adsorption ratio	Specific conductance (micromhos at 25°C)	pH	Temperature (°F)
1710. Jordan River at Salt Lake City																						
Location.--At highway bridge on Twenty-first South Street, Salt Lake City, 0.2 mile upstream from gaging station, approximately 200 feet upstream from diversion structure at head of Surplus Canal, and approximately 2 miles downstream from Mill Creek. Records available.--November 1963 to September 1965.																						
Oct. 13, 1964	287	21	140	71	198		295	0	371	305		14		1,260	1.71	976	640	398	3.4	1,990	7.5	--
Nov. 19	214	20	148	71	183		316	0	355	300		6.9		1,240	1.69	716	660	401	3.1	1,960	7.4	46
Feb. 12, 1965	237	22	168	72	196		325	0	368	340		15		1,340	1.82	857	715	448	3.2	2,180	7.7	40
Feb. 16	214	23	139	89	240		355	0	445	332		13		1,460	1.99	844	712	421	3.9	1,960	7.3	40
Mar. 24	363	20	119	87	199		311	0	395	294		7.5		1,270	1.73	1,240	654	399	3.4	2,180	7.7	47
Apr. 15	180	18	136	72	193		272	0	400	285		17		1,260	1.71	612	635	412	3.3	1,950	8.2	51
June 24	583	11	69	32	74		156	0	159	115		8.3		558	.76	878	302	174	1.8	931	8.2	55
July 29	291	22	144	64	184		292	0	377	272		13		1,220	1.66	959	625	386	3.2	1,940	7.6	--
Aug. 12	272	22	140	61	195		287	0	369	280		13		1,220	1.66	896	600	365	3.5	1,880	7.7	72
Sept. 20	389	.1	59	55	169		54	13	320	242		0		952	1.29	1,000	373	307	3.8	1,690	9.2	53
1716. Parleys Creek at Suicide Rock, near Salt Lake City																						
Records available.--November 1963 to September 1965.																						
Oct. 12, 1964	0.4	11	81	31	26		292	0	97	33		0.2		463	0.63	0.50	331	92	0.6	678	7.8	--
Nov. 19	1.6	12	77	31	27		274	0	103	34		1.2		464	.63	2.00	321	96	.7	666	7.9	44
Jan. 26, 1965	6.9	11	63	34	34		275	0	60	58		1.0		432	.59	8.05	296	70	.9	667	8.2	37
Feb. 17	1.2	11	68	24	33		249	0	53	56		.6		389	.53	1.26	267	63	.9	646	8.0	42
Mar. 22	1.8	12	93	22	30		287	0	78	49		1.7		441	.60	2.14	321	86	.7	689	8.0	45
May 19	189	9.8	67	10	16		222	0	31	21		.2		262	.36	134	210	28	.5	465	8.2	49
June 28	17	10	81	11	12		248	0	33	24		.4		294	.40	13.5	245	42	.3	505	7.8	52
July 27	5.0	12	83	15	16		262	0	47	28		.1		336	.46	4.54	269	54	.4	554	7.7	55
Aug. 16	3.5	13	88	21	18		263	0	83	31		1.1		391	.53	3.69	308	92	.4	633	8.1	65
Sept. 20	2.6	9.1	81	21	37		278	0	90	32		1.5		407	.55	2.86	288	60	.9	664	8.0	51
1720. Emigration Creek near Salt Lake City																						
Records available.--November 1963 to September 1965.																						
Oct. 12, 1964	1.8	13	104	28	29		315	0	130	30		0.6		532	0.72	2.59	374	116	0.6	753	7.8	50
Nov. 19	2.3	12	67	30	29		227	0	117	32		.8		432	.59	2.68	290	104	.7	627	7.9	42
Jan. 26, 1965	1.8	11	73	34	35		294	0	97	40		.8		477	.65	2.32	322	81	.9	709	7.9	40
Feb. 17	5.8	12	88	23	23		295	0	70	34		.4		411	.56	6.44	314	72	.6	643	7.9	37
Mar. 22	10	12	99	21	26		310	0	92	28		1.1		447	.61	12.1	333	79	.6	667	8.0	44
May 19	31	11	80	18	16		284	0	46	19		1.7		326	.44	27.3	274	41	.4	549	7.9	48
June 28	9.8	13	97	20	14		295	0	73	26		.8		400	.54	10.6	324	82	.3	654	7.8	--
Aug. 2	5.3	15	105	25	17		316	0	100	27		1.4		456	.62	6.53	364	105	.4	711	7.9	58
Aug. 16	3.2	14	98	27	17		285	0	110	29		1.4		437	.59	3.78	354	120	.4	700	7.9	60
Sept. 20	3.8	10	62	34	24		231	0	112	29		.1		439	.60	4.50	295	106	.6	715	7.9	48

Table 13.--Chemical analyses of water from streams at or near gaging stations--Continued

Chemical analyses, in parts per million, water year October 1964 to September 1965

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Boron (B)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Hardness as $CaCO_3$: Calcium, Magnesium	Hardness as $CaCO_3$: Noncarbonate	Sodium adsorption ratio	Specific conductance (micromhos at 25°C)	pH	Temperature (°F)
1722. Red Butte Creek at Fort Douglas, near Salt Lake City																						
Records available.--April 1964 to September 1965.																						
Oct. 12, 1964	1.6	11	82	37	21		331	0	106	14		0.2		456	0.62	1.97	335	84	0.5	678	8.0	45
Nov. 19	1.6	10	82	31	17		290	0	109	13		.1		425	.58	1.84	332	94	.4	632	8.2	36
Jan. 14, 1965	2.1	9.5	71	38	17		294	0	107	12		.1		424	.58	2.40	332	91	.4	626	8.1	36
Feb. 18	2.9	9.8	88	25	13		282	0	97	13		.2		396	.54	3.10	322	91	.3	594	8.1	33
May 19	16	11	74	19	12		267	0	54	11		.7		304	.41	13.1	264	45	.3	528	8.1	48
June 28	5.7	11	87	23	6.7		285	0	69	15		.3		361	.49	5.56	312	78	.2	585	8.0	52
Aug. 2	3.2	12	90	26	8.3		298	0	81	14		.3		385	.52	3.33	330	86	.2	615	8.1	56
Aug. 16	2.5	13	79	27	18		293	0	83	14		.6		384	.52	2.59	308	68	.4	616	7.9	64
Sept. 20	2.4	7.5	84	26	27		310	0	97	14		.1		404	.55	2.62	316	62	.7	649	8.1	48
1724. City Creek above Wasatch Drive, near Salt Lake City																						
Records available.--November 1963 to September 1965.																						
Oct. 12, 1964	0.8	13	64	26	22		307	0	19	29		0.1		342	0.47	0.74	265	13	0.6	542	7.8	44
Oct. 20	.8																			469		44
Nov. 19	.9	12	59	25	20		282	0	19	29		.6		302	.41	.73	248	17	.6	506	7.9	43
Jan. 11, 1965	1.2																			504		40
Jan. 26	1.1	12	58	22	25		278	0	19	30		.2		301	.41	.89	236	8	.7	509	8.1	40
Feb. 18	1.2	13	60	18	25		274	0	19	26		.1		296	.40	.96	228	3	.7	504	8.0	--
Mar. 11	2.2																			400		33
Mar. 23	1.5	12	65	19	21		272	0	20	28		.5		303	.41	1.23	239	16	.6	495	8.0	45
May 19	47	6.8	59	12	5.3		217	0	14	8.4		1.6		209	.28	26.5	194	16	.2	393	7.7	51
June 24	24	7.3	67	12	4.7		236	0	14	12		.3		230	.31	14.9	215	21	.1	417	7.7	47
July 15	1.6	12	62	17	12		246	0	19	21		.3		262	.36	1.13	224	22	.4	475	7.7	58
Aug. 16	.9	12	56	13	35		272	0	19	20		.1		289	.39	.70	195	0	1.1	509	8.1	62
Sept. 20	1.5	12	34	19	49		265	0	20	23		.0		272	.37	1.10	165	0	1.6	497	7.9	48
1725.8 Jordan River at Cudahy Lane, near Salt Lake City																						
Location.--At highway bridge on Cudahy Lane, approximately 0.2 mile upstream from gaging station, and 6.3 miles northwest of Salt Lake City. Records available.--October 1963 to September 1965.																						
Oct. 12, 1964	128																			2,010		
Oct. 13	129	20	140	68	193		282	0	352	315		9.8		1,240	1.69	432	630	399	3.3	2,010	7.2	59
Oct. 24	118																			2,070		51
Oct. 26	120																			2,010		54
Nov. 24	105																			1,910		45
Dec. 3	149																			1,220		44
Dec. 10	125																			1,820		44
Dec. 15	120																			1,790		43
Dec. 18	114																			1,870		38
Dec. 21	116																			1,770		44

Table 13.--Chemical analyses of water from streams at or near gaging stations--Continued

Chemical analyses, in parts per million, water year October 1964 to September 1965

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Boron (B)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Hardness as $CaCO_3$: Calcium, Magnesium	Hardness as $CaCO_3$: Noncarbonate	Sodium adsorption ratio	Specific conductance (micromhos at 25°C)	pH	Temperature (°F)
1725.8 Jordan River at Cudahy Lane, near Salt Lake City--Continued																						
Dec. 24, 1964	235																			807		44
Dec. 28	122																			1,190		40
Jan. 2, 1965	137																			1,950		40
Jan. 5	138																			1,890		44
Jan. 25	137																			1,950		40
Jan. 26	140	20	138	62	281		300	0	339	425		16		1,430	1.94	541	600	354	5.0	2,280	7.8	42
Feb. 16	120	16	90	87	210		304	0	340	299		15		1,210	1.65	392	581	249	3.8	1,900	8.0	39
Mar. 4	134																			1,670		43
Mar. 23	140	20	136	65	209		308	0	352	310		7.0		1,250	1.70	472	608	355	3.7	1,830	7.2	47
Apr. 15	171	16	124	47	135		274	0	251	255		10		980	1.33	452	505	280	2.6	1,510	7.6	49
May 21	342																			657		52
May 24	331	11	69	28	68		216	0	121	90		5.9		497	.68	444	288	111	1.7	817	7.5	54
June 11	348																			707		61
June 28	248	10	67	24	60		192	0	101	93		3.2		450	.61	301	266	109	1.6	773	7.4	57
July 14	158																			1,650		69
July 22	194	18	115	51	151		258	0	288	218		9.1		977	1.33	512	498	286	2.9	1,590	7.4	68
Aug. 12	159	21	124	66	184		279	0	357	265		8.7		1,160	1.58	498	580	351	3.3	1,850	7.6	74
Sept. 2	155																			1,860		--
Sept. 9	192																			1,770		65
Sept. 16	168																			1,840		59
Sept. 23	170	.2	89	50	179		230	0	298	225		1.1		960	1.31	441	428	286	3.8	1,550	7.2	57
Sept. 30	188																			1,690		--
1726.--Goggin Drain, near Magna																						
Records available.--October 1963 to September 1965.																						
Oct. 13, 1964	14	13	136	96	515		300	0	540	740		3.2		2,190	2.98	82.8	735	489	8.3	3,500	7.4	64
Oct. 16	11																			4,580		54
Nov. 23	18																			16,800		43
Dec. 30	8.5																			5,390		32
Feb. 5, 1965	6.8																			18,700		37
Feb. 11	6.2																			21,600		32
Mar. 22	1.7	2.9	175	382	5,260		408	57	2,260	7,550		9.9		15,900	21.6	73.0	2,010	1,580	51	23,200	8.4	44
Apr. 15	3.8	4.1	144	214	2,330		365	0	1,150	3,410		3.6		7,430	10.1	76.2	1,240	940	29	11,900	7.5	--
May 26	168	15	100	51	173		248	0	276	240		8.2		972	1.32	441	460	257	3.5	1,590	7.5	62
June 30	261																			1,550		69
July 26	69	19	136	81	436		306	0	468	625		4.4		1,920	2.61	358	675	424	7.3	3,250	7.4	71
Aug. 16	12	16	128	114	924		296	0	637	1,340		2.8		3,310	4.50	107	790	547	14	5,540	7.7	77
Sept. 15	8.6	4.8	108	148	1,320		210	16	835	1,900		1.9		4,440	6.04	103	880	682	19	7,420	8.6	64

Table 13.--Chemical analyses of water from streams at or near gaging stations--Continued

Chemical analyses, in parts per million, water year October 1964 to September 1965

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Boron (B)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Hardness as $CaCO_3$: Calcium, Magnesium	Hardness as $CaCO_3$: Noncarbonate	Sodium adsorption ratio	Specific conductance (micromhos at 25°C)	pH	Temperature (°F)
1726.5 Kennecott Drain, near Magna																						
Records available.--October 1963 to September 1965.																						
Oct. 13, 1964	49	35	451	128	886		177	0	1,310	1,460		10		4,370	5.94	578	1,650	1,500	9.5	6,330	7.3	61
Dec. 15	74																			3,960		42
Jan. 5, 1965	83																			5,840		45
Mar. 3	73																			6,580		48
Mar. 22	71	60	253	114	937		134	0	763	1,580		5.0		3,780	5.14	725	1,100	990	12	6,160	6.4	51
Apr. 15	60	19	276	204	2,000		124	0	909	3,420		1.1		6,890	9.37	1,120	1,530	1,430	22	11,400	6.7	--
May 6	197																			4,750		47
May 19	63	46	196	100	669		140	0	631	1,120		3.9		2,830	3.85	481	900	785	9.7	4,780	6.9	72
June 28	125	37	184	100	613		194	0	579	1,020		3.5		2,630	3.58	888	870	711	9.0	4,440	7.1	67
July 26	111	30	176	88	529		258	0	509	855		1.7		2,320	3.16	695	800	588	8.1	3,940	7.2	72
July 27	113																			3,580		70
Aug. 16	85	29	180	88	550		286	0	553	845		4.6		2,390	3.25	549	810	575	8.4	3,930	7.6	74
Sept. 20	152	5.0	212	83	686		88	20	567	1,180		1.3		2,800	3.81	1,150	870	765	10	4,850	9.1	55

Table 14.--Daily mean specific conductance of Jordan River at Cudahy Lane, near Salt Lake City (1725.8)

Records available.--April 1964 to September 1965.

Specific conductance, in micromhos per cm. at 25°C, water year October 1964 to September 1965

	October	November	December	January	February	March	April	May	June	July	August	September
1	1,750	1,940	1,320	1,800	1,710	1,770	1,600	1,280	800	1,150	1,610	1,850
2	1,750	1,940	910	1,800	1,720	1,790	1,620	1,200	840	1,190	1,600	1,850
3	1,800	1,900	1,240	1,790	1,720	1,800	1,600	1,200	850	1,180	1,700	1,850
4	1,770	1,950	1,100	1,730	1,790	1,750	1,600	1,200	930	1,230	1,720	1,820
5	1,800	1,930	1,060	1,810	1,800	1,750	1,600	1,250	930	1,250	1,700	1,850
6	1,800	1,900	1,050	1,800	1,740	1,770	1,580	1,300	940	1,200	1,800	1,100
7	1,860	1,900	1,140	1,820	1,700	1,800	1,630	1,300	930	1,130	1,810	1,060
8	1,880	1,900	1,430	1,910	1,680	1,750	1,620	1,250	950	1,130	1,880	1,500
9	1,890	1,900	1,790	1,950	1,770	1,700	1,620	1,250	950	1,150	1,850	1,650
10	1,940	1,900	1,790	1,920	2,090	1,720	1,580	1,250	950	1,170	1,610	1,780
11	1,880	1,900	1,800	1,900	1,910	1,720	1,600	1,200	950	1,200	1,770	1,800
12	1,850	1,900	1,800	1,950	1,850	1,700	1,600	1,200	950	1,230	1,820	1,950
13	1,870	1,900	1,790	1,970	1,840	1,720	1,530	1,240	980	1,450	1,820	1,930
14	1,880	1,900	1,810	1,940	1,730	1,720	1,500	1,250	980	1,700	1,800	2,000
15	1,880	1,900	1,810	1,950	2,070	1,680	1,500	1,140	1,000	1,720	1,790	1,950
16	1,880	1,900	1,850	1,950	1,910	1,700	1,540	1,140	980	1,720	1,750	1,850
17	1,880	1,900	1,800	1,950	1,900	1,850	1,540	1,120	980	1,600	1,750	1,650
18	1,880	1,900	1,880	1,820	1,870	1,880	1,540	970	980	1,600	1,750	1,650
19	1,880	1,900	1,840	1,900	1,800	1,870	1,460	830	1,080	1,250	1,540	1,650
20	1,880	1,900	1,750	1,950	1,850	1,820	1,440	780	1,060	1,300	1,600	1,600
21	1,890	1,900	1,800	1,900	1,900	1,750	1,440	730	950	1,350	1,600	1,600
22	1,850	1,900	1,400	2,000	1,900	1,750	1,450	730	940	1,540	1,540	1,610
23	1,850	1,900	1,200	2,320	1,900	1,720	1,500	790	860	1,650	1,700	1,600
24	1,900	1,900	840	1,990	1,830	1,700	1,500	830	840	1,730	1,700	1,600
25	1,900	1,900	950	2,130	1,820	1,500	1,480	780	840	1,750	1,750	1,700
26	1,900	1,900	950	2,480	1,820	1,600	1,480	760	800	1,580	1,750	1,670
27	1,870	1,900	1,200	2,280	1,640	1,650	1,300	610	800	1,590	1,750	1,630
28	1,900	1,900	1,440	1,990	1,670	1,670	1,350	720	750	1,540	1,800	1,610
29	2,000	1,880	1,710	1,500	----------	1,650	1,280	720	910	1,580	1,790	1,500
30	1,990	1,740	1,990	1,730	----------	1,670	1,280	800	1,080	1,580	1,800	1,650
31	1,880	----------	1,800	1,700	----------	1,650	----------	800	----------	1,540	1,800	----------
Average	1,870	1,900	1,490	1,920	1,820	1,730	1,510	1,020	930	1,410	1,730	1,680

Table 15.--Daily maximum and minimum temperature of Red Butte Creek at Fort Douglas, near Salt Lake City (1722)

Records available.--April 1964 to September 1965.

Extremes.--Maximum temperature during year, 68°F Aug. 11; minimum, 32°F on several days during winter months. April 1, 1964-September 1965: Maximum temperature, 69°F on several days in July and August 1964; minimum, 32°F on several days during winter months.

Temperature of water, in degrees Fahrenheit, water year October 1964 to September 1965

Month	Day																															Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
October																																
Maximum.....	55	51	52	53	52	51	51	52	51	51	49	48	51	53	55	51	50	46	45	45	48	48	48	46	45	47	48	49	52	51	48	50
Minimum.....	51	47	48	50	48	48	48	49	49	48	45	45	47	49	50	50	46	42	42	43	44	46	44	43	43	44	45	44	49	48	46	46
November																																
Maximum.....	47	46	44	42	41	42	42	44	44	42	38	37	37	38	37	35	34	36	37	37	37	36	37	38	39	39	38	37	39	39		39
Minimum.....	46	44	40	38	39	39	39	42	41	38	37	36	36	37	34	34	33	34	33	34	34	36	36	37	38	38	37	37	37	39		37
December																																
Maximum.....	39	40	40	38	37	36	37	36	36	36	36	35	34	33	34	34	34	33	33	34	34	37	38	38	38	37	37	36	34	33	34	36
Minimum.....	38	39	38	37	36	35	36	34	34	35	35	34	33	33	33	34	33	32	32	33	34	34	37	38	36	36	36	34	33	33	33	35
January																																
Maximum.....	34	34	33	34	34	35	34	33	33	33	33	35	35	36	36	36	36	35	36	35	35	35	36	36	35	35	35	35	35	36	37	35
Minimum.....	34	33	33	33	33	34	33	32	32	33	33	33	34	34	34	35	34	34	35	35	34	35	35	35	35	35	34	35	35	35	36	34
February																																
Maximum.....	36	34	35	36	36	36	35	35	35	35	34	34	34	34	34	34	35	35	36	37	38	38	37	37	39	41	41	39				36
Minimum.....	34	34	34	35	35	35	34	33	34	34	34	34	34	34	34	33	34	33	34	34	34	36	35	34	36	36	38	36				34
March																																
Maximum.....	37	34	34	36	38	41	43	42	39	38	40	38	38	41	42	42	39	34	34	34	42	40	41	38	37	37	39	43	48	50	52	40
Minimum.....	34	33	33	33	34	35	37	35	35	34	33	36	34	35	36	34	33	32	32	32	34	37	35	37	33	34	36	35	35	39	41	35
April																																
Maximum.....	44	44	49	47	44	46	44	46	46	43	43	45	44	46	50	51	47	48	51	54	56	47	53	51	48	53	53	56	57	52		49
Minimum.....	41	42	39	40	39	41	42	41	42	38	38	40	40	39	38	40	42	42	42	43	45	46	45	42	44	42	41	42	43	46		42
May																																
Maximum.....	55	54	55	52	44	48	43	42	48	49	54	56	48	54	57	59	58	56	54	52	52	56	56	49	49	50	53	56	58	56	56	53
Minimum.....	42	44	42	41	38	39	38	40	40	40	40	42	45	47	45	45	46	45	44	46	47	45	45	46	44	43	41	42	44	46	47	43
June																																
Maximum.....	56	51	52	56	56	57	59	54	52	54	55	58	57	57	52	52	56	58	59	60	59	60	59	53	55	49	54	57	58	60		56
Minimum.....	47	46	42	44	45	45	48	48	49	48	50	49	49	49	49	48	46	47	48	50	52	49	49	49	47	46	47	46	47	49		48
July																																
Maximum.....	60	59	60	62	61	61	61	62	64	62	62	62	63	63	63	64	61	63	62	61	62	60	63	63	58	64	65	64	67	60	61	62
Minimum.....	50	49	50	52	52	52	53	52	54	52	54	52	52	53	54	55	54	54	54	53	52	55	54	55	56	54	54	55	56	57	56	53
August																																
Maximum.....	58	62	66	65	65	65	66	66	65	67	68	67	64	65	65	62	58	55	53	58	56	58	60	59	58	58	56	57	56	55	53	61
Minimum.....	56	54	56	56	56	55	56	57	57	57	58	58	58	57	56	56	56	53	52	50	53	53	53	55	56	56	55	56	55	53	50	55
September																																
Maximum.....	52	53	53	53	52	52	53	53	54	54	56	56	56	53	53	50	47	44	47	48	47	50	52	52	52	52	53	53	51	49		52
Minimum.....	51	52	52	51	51	51	52	52	53	53	54	54	53	52	50	47	44	43	44	46	47	47	50	51	51	51	52	51	49	47		50

Table 16.--Suspended sediment in streams at or near gaging stations

Methods of analysis.--V, visual accumulation tube; P, pipet; W, in distilled water; C, chemically dispensed; S, sieve.

Discharge.--e, estimated.

Suspended-sediment discharge and particle-size analyses, water year October 1964 to September 1965

Date	Time	Water		Suspended sediment														Methods of analysis
		Temperature (°F)	Discharge (cfs)	Concentration (ppm)	Discharge (tons per day)	Percent finer than indicated size, in millimeters												
						0.002	0.004	0.005	0.016	0.031	0.062	0.125	0.250	0.300	1.000	2.000		
1675. Little Cottonwood Creek near Salt Lake City																		
Oct. 12, 1964	-	51	11	0	0													
Mar. 22, 1965	-	37	16	12	.5													
1677 F. Little Cottonwood Creek at 900 East, near Murray																		
July 27, 1965	1515	-	-	145	-													
1677 G. Little Cottonwood Creek at 6600 South, near Murray																		
May 6, 1965	1520	52	55e	110	16	32	46	-	-	-	57	57	65	77	100		VPWC
June 24	1710	62	600e	416	674	9	19	-	42	-	77	89	97	100	-		VPWC
July 1	1615	64	200e	53	29	-	-	-	-	-	96	-	-	-	-		S
July 7	1915	-	15e	74	3													
July 9	1730	-	45e	368	45													
July 10	1930	-	35e	332	31													
July 11	1800	-	40e	278	30													
July 15	1800	-	50e	401	54													
July 27	1545	-	-	187	-													
Sept. 30	1615	54	-	6	-													
1685. Big Cottonwood Creek near Salt Lake City																		
Oct. 12, 1964	-	49	4.7	0	0													
Mar. 19, 1965	-	33	28	2	.2													
1700. Mill Creek near Salt Lake City																		
Oct. 12, 1964	-	48	5.6	4	0.1													
Mar. 19, 1965	-	-	5.8	180	2.8													
1716. Parleys Creek at Suicide Rock, near Salt Lake City																		
Oct. 12, 1964	-	-	0.4	2	0													
Mar. 22, 1965	-	45	1.8	148	.7													
1720. Emigration Creek near Salt Lake City																		
Oct. 12, 1964	-	50	1.8	18	0.1													
Mar. 22, 1965	-	44	10	102	2.8													
1722. Red Butte Creek at Fort Douglas, near Salt Lake City																		
Oct. 12, 1964	-	45	1.6	2	0													
1724. City Creek above Wasatch Drive, near Salt Lake City																		
Oct. 12, 1964	-	44	0.8	0	0													
Mar. 23, 1965	-	45	1.5	63	.3													

Table 17.--Discharge measurements at miscellaneous sites

Measurements during water year, October 1964 to September 1965

Station No.	Stream	Location	Drainage area (sq.mi.)	Measurements	
				Date	Discharge (cfs)
1670 L	Jordan River	NE¼NE¼ sec. 15, T. 4 S., R. 1 W., at dam, 2.9 miles downstream from gage at Jordan Narrows and 1 mile southeast of Bluffdale	-	8-11-65	3.9
1670 M	Rose Creek	NW¼NW¼ sec. 10, T. 4 S., R. 2 W., above diversion intake, 2 miles southwest of Herriman	-	5-14-65	1.4
				6- 1-65	1.0
				6-15-65	.9
				6-30-65	.7
1670 N	Corner Creek	NE¼SE¼ sec. 4, T. 4 S., R. 1 E., 2.4 miles southeast of Draper	-	10-30-64	.5
				5-14-65	4.2
				6- 1-65	3.1
				6-15-65	2.1
				6-30-65	1.4
1670 P	Draper Irrigation Company Ditch	NE¼SW¼ sec. 28, T. 3 S., R. 1 E., at 12300 South, 1 mile east of Draper	-	10-30-64	1.8
				5-14-65	3.0
				6- 3-65	16.4
				6-15-65	34.5
1670 Q	Butterfield Creek	SE¼SW¼ sec. 31, T. 3 S., R. 2 W., 0.7 mile upstream from Utah Highway 111 and 3.6 miles southwest of Herriman	-	10-30-64	1.6
				5-14-65	2.9
				6- 1-65	3.9
				6-15-65	2.8
				6-30-65	2.5
1670 R	Keystone Gulch	NE¼SE¼ sec. 29, T. 3 S., R. 2 W., at Utah Highway 111, 0.5 mile east of Lark	-	10-30-64	1.8
				5-14-65	2.5
				6-15-65	2.1
				6-30-65	1.3
				7-20-65	3.2
				8-31-65	3.1
1670 S	Jordan River	NW¼SW¼ sec. 13, T. 3 S., R. 1 W., at bridge at 10600 South, 2.5 miles southeast of Sandy City	-	8-12-65	103
1670 T	Bells Canyon Irrigation Company Ditch	NE¼NW¼ sec. 14, T. 3 S., R. 1 E., at Parshall flume in ditch near Granite	-	10-30-64	.5
				5-14-65	.8
				6- 1-65	8.1
				7-20-65	12.5
				8-27-65	4.0
1672	Jordan River at 9400 South	SW¼SE¼ sec. 2, T. 3 S., R. 1 W., about 300 feet below diversion structure at head of North Jordan Canal and 1.3 miles northeast of South Jordan	3,130	7-19-65	24.6
				8-30-65	5.6
1672 B	Bingham Creek	SW¼NW¼ sec. 15, T. 3 S., R. 2 W., at bridge on Utah Highway 111, 2 miles east of Copperton	-	10-30-64	.5
				5-14-65	.1
				5-15-65	3.2
				6- 4-65	1.6
				6-30-65	.2
				7-20-65	.1
1672 C	Bingham Canal	NE¼NE¼ sec. 16, T. 3 S., R. 2 W., at bridge on Utah Highway 111, 2 miles east of Copperton	-	5-14-65	3.6
				6- 1-65	2.6
				6-15-65	1.7
				6-30-65	.1
1673	Jordan River at 5800 South	NE¼SW¼ sec. 14, T. 2 S., R. 1 W., at bridge at 5800 South, 2.3 miles southwest of Murray	3,240	7-23-65	145
1673 B	Brighton Canal	NW¼SW¼ sec. 1, T. 2 S., R. 1 W., at staff gage about 150 feet downstream from diversion structure on Jordan River, 1.2 miles northwest of Murray	-	10-16-64	20.0
				6- 3-65	25.2
				6-14-65	37.4
				6-28-65	4.3
1675 I	Thompson Ditch	SW¼SW¼ sec. 2, T. 3 S., R. 1 E., about 0.5 mile west of Little Cottonwood Creek treatment plant	-	5-26-65	2.5
				6-22-65	6.6
1675 J	Lym Ditch	SW¼SW¼ sec. 2, T. 3 S., R. 1 E., about 0.5 mile southwest of Little Cottonwood Creek treatment plant	-	5-26-65	4.9
				6-22-65	9.7
1675 K	Nichols and Last Chance Ditch	SE¼NW¼ sec. 2, T. 3 S., R. 1 E., about 0.4 mile southeast of Little Cottonwood Creek treatment plant	-	5-26-65	27.4
				6-22-65	20.0

Table 17.--Discharge measurements at miscellaneous sites--Continued

Measurements during water year, October 1964 to September 1965

Station No.	Stream	Location	Drainage area (sq.mi.)	Measurements	
				Date	Discharge (cfs)
1675 O	Willow Creek	NE¼NW¼ sec. 1, T. 3 S., R. 1 E., above upper diversion above Wasatch Boulevard and near Little Cottonwood Creek treatment plant	-	5-17-65	3.5
1675 R	Willow Creek	SE¼NE¼ sec. 2, T. 3 S., R. 1 E., at bridge on Danish Road near Little Cottonwood Creek treatment plant	-	4-25-65 5-17-65 5-26-65 6- 3-65 6-15-65	6.3 7.0 7.0 7.8 15.3
1677 E	Little Cottonwood Creek	NE¼NE¼ sec. 12, T. 2 S., R. 1 E., at diversion of unnamed ditch below Union Pacific Railroad Company tracks in Murray	-	9-14-65	9.6
1677 F	Little Cottonwood Creek	SE¼SW¼ sec. 17, T. 2 S., R. 1 E., at bridge at 900 East, 1.8 miles southeast of Murray	-	9-14-65	2.0
1680	Little Cottonwood Creek	NW¼NE¼ sec. 12, T. 2 S., R. 1 W., at bridge at 300 West in Murray	-	9-14-65	9.4
1685 P	Hughes Creek	NE¼NE¼ sec. 23, T. 2 S., R. 1 E., above culvert on Wasatch Boulevard, 2.5 miles southeast of Holladay	-	5-17-65 6- 2-65 6-15-65	6.0 1.4 .5
1685 R	Ferguson Creek	NE¼SW¼ sec. 25, T. 2 S., R. 1 E., above Wasatch Boulevard	-	6-18-65	1.8
1688 E	Big Cottonwood Creek	NE¼NW¼ sec. 8, T. 2 S., R. 1 E., at bridge at 900 East in Murray	-	9-13-65	6.3
1690	Spring Run	NE¼NW¼ sec. 8, T. 2 S., R. 1 E., at bridge at 900 East in Murray	-	9-13-65	15.0
1695	Big Cottonwood Creek	NW¼NE¼ sec. 1, T. 2 S., R. 1 W., at bridge at 300 West in Murray	-	9-13-65	28.4
1698 A	Porter Fork	SE¼SE¼ sec. 28, T. 1 S., R. 2 E., about 0.5 mile downstream from Mill Creek Guard Station and about 9 miles southeast of Salt Lake City	-	3-26-65	1.9
1698 B	Mill Creek	SE¼NE¼ sec. 31, T. 1 S., R. 2 E., above Boundary Springs and about 7 miles southeast of Salt Lake City	-	3-26-65	6.8
1700 O	Neffs Creek	SE¼NE¼ sec. 1, T. 2 S., R. 1 E., at culvert on Foubert Avenue about 7 miles southeast of Salt Lake City	-	6-18-65	.1
1717	Parleys Creek above 13th East	NE¼NE¼ sec. 20, T. 1 S., R. 1 E., in Sugar House Park about 100 feet upstream from 13th East Street	56.7	11-30-64 12- 3-64 1- 6-65 2-18-65 3-11-65 4-25-65 5-20-65 6-18-65 6-30-65 7-28-65	70.3 90.2 13.4 21.0 22.6 178 97.2 33.3 30.6 5.7
1719 B	Burr Fork	NE¼NE¼ sec. 21, T. 1 N., R. 2 E., at Pinecrest about 2 miles upstream from gage on Emigration Creek below Burr Fork (1719)	-	8- 9-65	.7
1719 D	Emigration Creek	NE¼SW¼ sec. 27, T. 1 N., R. 2 E., below confluence of Burr Fork and Emigration Creek	-	8- 9-65	1.4
1719 E	Emigration Creek	NE¼SW¼ sec. 27, T. 1 N., R. 2 E., 0.1 mile above gage at Emigration Creek below Burr Fork (1719)	-	8- 9-65	1.3
1719 G	Emigration Creek	SW¼NE¼ sec. 33, T. 1 N., R. 2 E., at Last Camp Historical Monument	-	8-10-65	1.4
1719 J	Emigration Creek	NW¼NW¼ sec. 12, T. 1 S., R. 1 E., about 1 mile upstream from gage on Emigration Creek near Salt Lake City (1720)	-	8-10-65	1.8

Table 17.--Discharge measurements at miscellaneous sites--Continued

Measurements during water year, October 1964 to September 1965

Station No.	Stream	Location	Drainage area (sq.mi.)	Measurements	
				Date	Discharge (cfs)
1726 B	Outflow from Lake Front Duck Club's property	T. 2 N., R. 2 W.			
		Outer dike weir no. 3	-	5- 7-65	12
		Outer dike weir no. 4	-	5- 7-65	26
1726.4	Lee Creek	At bridge on section line between sec. 35 and 36, T. 1 N., R. 3 W., and 5 miles northwest of Magna	-	7-26-65	15.2

Streamflow records

Tables 18-63 show daily or monthly surface flows at the sites described. Underlined daily flows are maximum or minimum values for the month. Complex relations between flows in some areas are illustrated by figures 2-5.

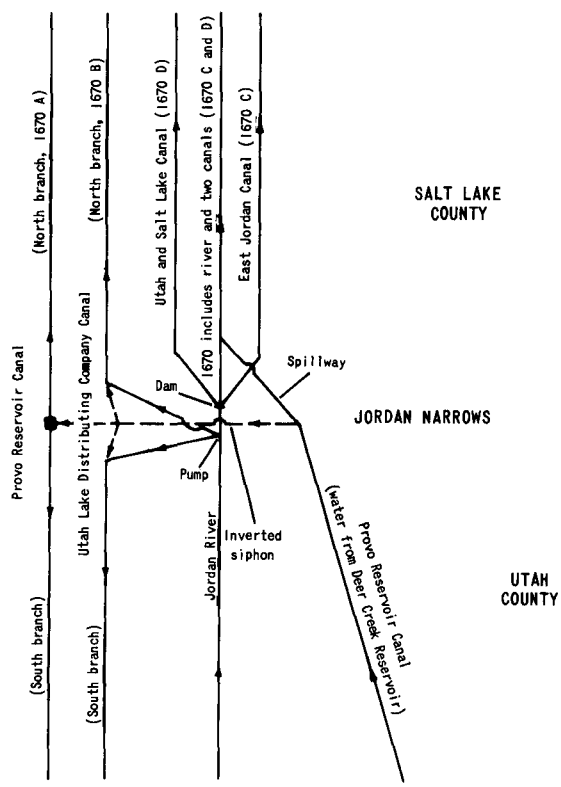


Figure 2.— Schematic diagram showing relation of flows in Jordan Narrows.

Table 18.--1590 A, 1670 A, B. Water imported to Salt Lake County

Imports.--Water from Deer Creek Reservoir, on the Provo River in Wasatch County, is delivered to Salt Lake County through the Salt Lake City aqueduct, the north branch of Provo Reservoir Canal, and the north branch of the Utah Lake Distributing Company Canal. The latter canal also delivers water pumped from the Jordan River above the diversion dam and stream-gaging station at Jordan Narrows. (See fig. 2.)

Locations.--The Salt Lake City aqueduct is a 69-inch pipeline that terminates at the Little Cottonwood Creek treatment plant. (See table 26.) The head of the north branch of the Provo Reservoir Canal is at the inverted-siphon outlet in the NE¼SW¼ sec. 26, T. R S., R. 1 W. The head of the north branch of the Utah Lake Distributing Company Canal is 400 feet southwest of the pumping plant in the NE¼NW¼ sec. 26, T. 4 S., R. 1 W.

Records available.--October 1963 to September 1965. Records of water delivered from Deer Creek Reservoir for previous years are in the files of the Metropolitan Water District of Salt Lake City. Records of water pumped from the Jordan River for previous years are in the annual reports of the water commissioner for Utah Lake and Jordan River.

Cooperation.--Records furnished by Metropolitan Water District of Salt Lake City and the water commissioner for Utah Lake and Jordan River.

Monthly discharge, in acre-feet, water year October 1964 to September 1965

	Oct.	Nov.	Dec.	Calendar year 1964	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year 1965
1590 A. Salt Lake City aqueduct														
To users between county line and treatment plant	23	4	1	1,240	1	2	5	0	12	2	69	216	109	444
To treatment plant	1,360	232	512	12,950	490	557	638	835	446	398	715	760	601	7,540
Total	1,380	236	513	14,190	491	559	643	835	458	400	784	976	710	7,980

Note.--Total discharge for the 1965 water year does not include leakage from the aqueduct and spill to Little Cottonwood Creek of about 1,200 acre-feet.

1670 A. Provo Reservoir Canal (north branch)														
	0	0	0	19,530	0	0	0	0	6,000	5,460	7,130	6,080	7,200	35,870
1670 B. Utah Lake Distributing Company Canal (north branch)														
From Deer Creek Reservoir	0	0	0	5,000	0	0	0	140	980	940	680	480	1,330	4,550
From Jordan River	20	0	0	15,810	0	0	0	308	3,540	4,050	4,480	4,670	2,420	19,490
Total	20	0	0	20,830	0	0	0	448	4,520	4,990	5,160	5,150	3,750	24,040

Note.--Discharge for the 1964 calendar year is based on no flow from Jan. to Apr. 1964. Total discharge is the rounded sum of monthly totals.

Table 19.--1670. Jordan River at narrows, near Lehi

Location.--Lat 40°26'40", long 111°55'15", in SE¼NW¼ sec. 26, T. 4 S., R. 1 W., at narrows 5.5 miles northwest of Lehi and 7.5 miles downstream from Utah Lake.

Drainage area.--3,000 sq mi, approximately, including 255 sq mi in closed basin in Cedar Valley, Utah County.

Records available.--May to December 1904, July 1913 to September 1965. May to December 1904, July 1913 to September 1960 in annual series of Water-Supply Papers of the U.S. Geological Survey, with monthly summaries in WSP 1314 and 1734. October 1960 to September 1965 in Surface Water Records of Utah, published annually.

Gage.--Water-stage recorder. Altitude of gage is 4,470 ft (barometer). Prior to May 16, 1920, staff gage; May 16, 1920, to Sept. 30, 1934, water-stage recorder, at outlet of Utah Lake 7.5 miles upstream at different datum.

Average discharge.--52 years (1913-65), 351 cfs (254,100 acre-ft per year).

Extremes.--1904, 1913-65: Maximum daily discharge, 1,410 cfs June 10, 1952; no flow at times when gates were closed.

Remarks.--Records good except those for period of no gage-height record, which are fair. Figures given herein represent the combined flow of Jordan River, Utah and Salt Lake Canal, and East Jordan Canal. See table 18 for record of additional flow from Utah Lake to Salt Lake County. (See fig. 5.) Flow may be regulated by gates and pumps at the outlet of Utah Lake, pumps at Pelican Point, and the diversion dam at narrows.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	378	16	20	25	24	14		410	552	598	617	625
2	405	16	20	25	25	16		391	541	602	597	622
3	411	16	20	25	25	17		423	591	627	558	622
4	394	16	20	25	25	16	a 0.9	451	596	623	549	612
5	388	16	20	25	25	14		459	616	613	553	528
6	383	16	20	25	25	16		219	633	631	565	136
7	389	16	20	25	24	14	.9	171	617	639	588	67
8	378	16	20	25	b 24	14	.9	159	620	651	615	91
9	385	16	20	25	b 24	13	.9	86	615	663	657	120
10	373	16	20	25	b 24	14	.9	50	616	680	695	132
11	266	16	20	25	b 24	13	.9	89	589	677	686	135
12	202	16	21	25		15	.9	269	567	672	690	177
13	199	16	23	25		16	.9	359	561	695	721	235
14	197	17	23	25	a 20	20	.9	363	537	692	738	281
15	90	17	23	25		19	47	401	524	690	733	391
16	28	17	24	25		18	100	445	513	688	731	363
17	17	18	25	25	19	11	102	473	546	673	731	198
18	16	20	23	25	18	16	102	568	556	687	688	111
19	21	20	23	25	20	15	117	624	567	620	513	110
20	24	20	23	25	24	14	141	628	589	589	561	96
21	24	20	23	24	25	13	186	640	623	565	373	83
22	22	20	23	24	19	13	201	632	633	558	168	93
23	22	20	23	24	18	12	199	639	630	561	100	122
24	59	20	23	25	26	9.0	183	572	621	562	176	180
25	71	20	23	26	21	16	220	510	603	572	287	202
26	55	20	23	26	18	15	223	485	557	561	302	197
27	22	20	23	25	16	13	217	514	517	551	410	282
28	22	20	23	25	15	15	215	567	513	538	518	265
29	23	20	23	25	----------	13	274	586	541	598	544	203
30	21	20	24	25	----------	a .9	343	608	569	655	592	197
31	17	----------	25	25	----------	a .9	----------	580	----------	641	622	----------
Total	5,302	537	684	774	608	425.8	2,882.6	13,371	17,353	19,372	16,878	7,476
Mean	171	17.9	22.1	25.0	21.7	13.7	96.1	431	578	625	544	249
Ac-ft	10,520	1,070	1,360	1,540	1,210	845	5,720	26,520	34,420	38,420	33,480	14,830

Calendar year 1964 : Max 767 Min 1.7 Mean 227 Ac-ft 164,600
Water year 1964-65: Max 738 Min -- Mean 235 Ac-ft 169,900

a No gage-height record; discharge estimated.
b Stage-discharge relation affected by ice.

Table 20.--1670 C-K, 1673-B. Diversions from Jordan River between Jordan Narrows and gaging station at 2100 South

Locations.--East Jordan Canal (1670 C) diverts from the right bank and the Utah and Salt Lake Canal (1670 D) diverts from the left bank in SE¼NW¼ sec. 26, T. 4 S., R. 1 W. South Jordan Canal (1670 E) and the Jordan and Salt Lake City Canal (1670 F) divert through a common heading on the right bank in NE¼SE¼ sec. 22, T. 4 S., R. 1 W. South Jordan Canal crosses to the left bank about 0.3 mile downstream. Mousley Canal (1670 G) diverts from the right bank in NE¼NE¼ sec. 15, T. 4 S., R. 1 W. Galena Canal (1670 H) diverts from the right bank in SE¼NE¼ sec. 2, T. 4 S., R. 1 W. Beckstead Ditch (1670 I) diverts from the left bank in SE¼SW¼ sec. 26, T. 3 S., R. 1 W. North Jordan Canal (1670 K) diverts from the left bank in NE¼NW¼ sec. 11, T. 3 S., R. 1 W., and Gardner Mill Race (1670 J) diverts from this canal in NE¼NW¼ sec. 35, T. 2 S., R. 1 W., above the measuring weir. Brighton Canal (1673 B) diverts from the left bank in NW¼SW¼ sec. 1, T. 2 S., R. 1 W.

Records available.--Records of combined flow for October 1963 to September 1965 in Utah basic-data releases. Records of daily flows of the upper nine canals (1670 C-K) in annual reports of the water commissioner for Utah Lake and Jordan River.

Extremes.--1963-65: Maximum daily discharge, 916 cfs Aug. 14, 1965; minimum daily, 31 cfs Mar. 11, 1964.

Remarks.--The flow of Brighton Canal, estimated from occasional discharge measurements and gage readings, was added to the daily flows of the upper nine canals to obtain the combined discharge given herein. Diversions from the South Jordan Canal to the Utah-Idaho Sugar Company and from Galena Canal to the United States Smelting Refining and Mining Company are not included because most of this water returns to the Jordan River.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	500	63	47	46	45	57	47	483	637	710	784	780
2	493	63	48	45	50	57	47	459	622	728	756	777
3	469	63	51	49	58	57	47	487	672	744	721	772
4	482	62	51	51	58	57	47	516	692	742	712	763
5	507	62	51	47	58	56	48	525	721	730	717	669
6	495	61	50	46	58	55	46	321	736	748	731	220
7	498	60	50	47	58	55	46	268	715	758	751	139
8	479	58	50	48	57	55	49	254	720	766	780	167
9	503	59	50	49	58	55	49	188	719	781	825	196
10	500	55	50	49	58	53	47	148	726	798	832	137
11	377	55	49	47	57	53	42	182	717	793	857	139
12	304	56	49	48	57	53	40	365	678	790	868	169
13	297	58	49	48	56	53	40	460	675	813	901	289
14	290	54	48	47	56	53	40	461	651	784	916	336
15	188	52	48	47	55	53	40	497	636	782	905	425
16	118	52	46	47	56	52	149	544	613	785	905	433
17	101	52	45	47	55	51	151	564	662	777	906	232
18	97	52	45	47	55	49	153	667	667	767	847	173
19	101	52	45	47	55	49	136	725	628	702	660	213
20	106	50	45	47	55	50	161	739	707	662	707	203
21	77	50	45	47	57	50	186	751	680	643	520	202
22	79	50	46	47	57	50	201	741	733	643	224	240
23	62	49	47	47	57	50	197	746	714	640	221	310
24	112	49	47	47	57	50	183	644	732	644	272	356
25	124	49	47	51	57	49	214	580	691	655	406	392
26	106	49	47	49	57	51	223	570	647	642	443	382
27	73	48	48	49	57	51	219	600	604	635	548	458
28	73	48	48	49	57	47	216	608	602	626	664	437
29	80	48	48	49	----------	51	261	672	636	725	689	341
30	80	47	49	47	----------	45	389	699	661	795	748	321
31	74	----------	49	45	----------	46	----------	671	----------	784	777	----------
Total	7,845	1,626	1,488	1,476	1,571	1,613	3,714	16,135	20,294	22,592	21,593	10,671
Mean	253	54.2	48.0	47.6	56.1	52.0	124	520	676	729	697	356
Ac-ft	15,560	3,230	2,950	2,930	3,120	3,200	7,370	32,000	40,250	44,810	42,830	21,170

Calendar year 1964: Max 897 Min 31 Mean 294 Ac-ft 213,600
Water year 1964-65: Max 916 Min 40 Mean 303 Ac-ft 219,400

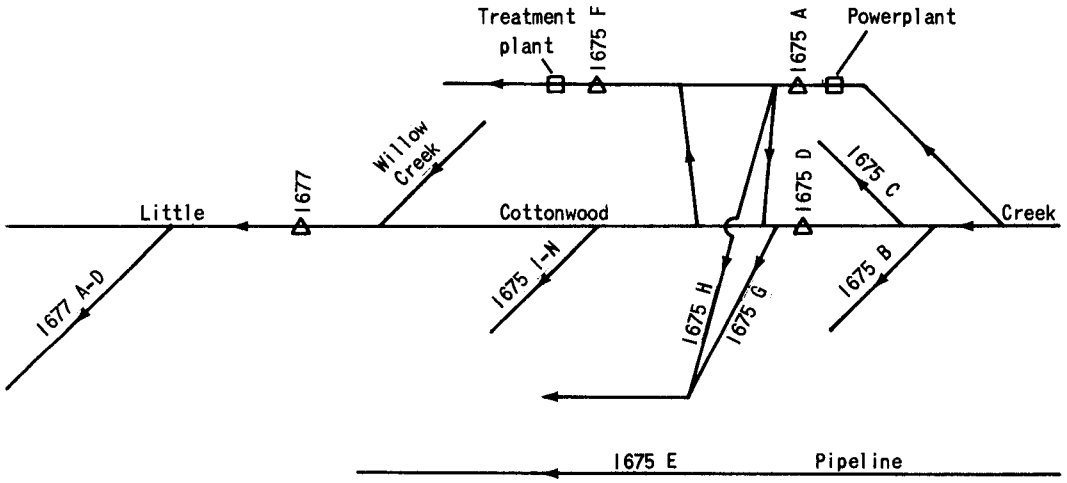


Figure 3.— Schematic diagram showing relation of flows in Little Cottonwood Creek basin. Diversions represented by 1675 I-N and 1677 A-D include those from both sides of the creek. Canals 1677 A-D at times are supplied with water from the East Jordan and the Jordan and Salt Lake City Canals.

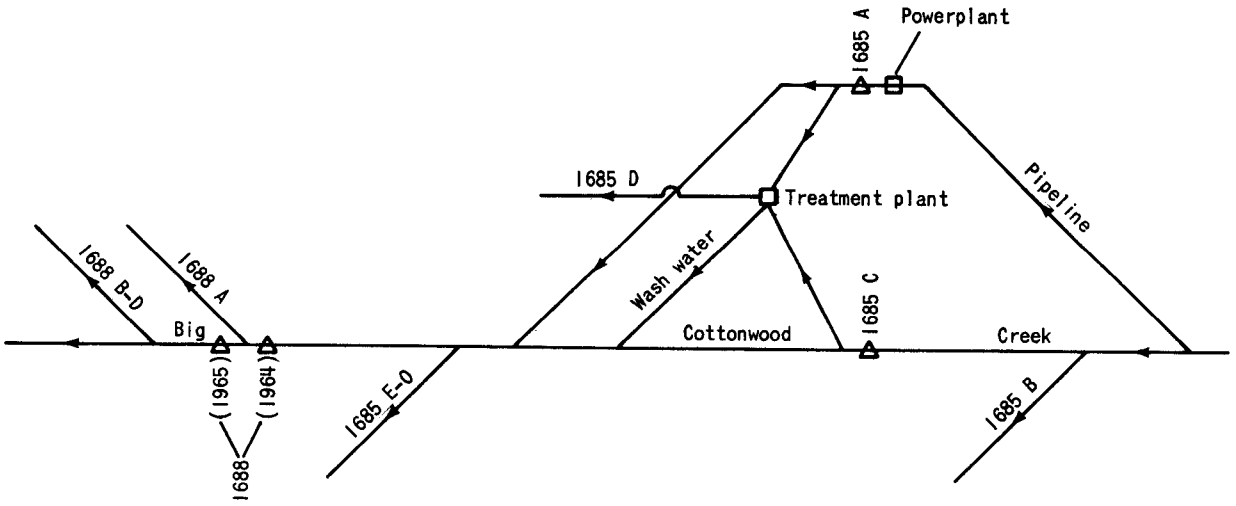


Figure 4.— Schematic diagram showing relation of flows in Big Cottonwood Creek basin. Diversions represented by 1685 E-O include those from both sides of the creek. Canals 1685 E-O and 1688 A at times are supplied with water from the East Jordan Canal and well (D-2-1)14ccd-2. Canals 1688 B-D at times are supplied with water from the Jordan and Salt Lake City Canal.

Table 21.--1675. Little Cottonwood Creek near Salt Lake City

Location.--Lat 40°34'40", long 111°47'50", in NE¼NE¼ sec. 11, T. 3 S., R. 1 E., at mouth of canyon, 100 ft west of Wasatch Drive, 2 miles downstream from Wasatch Resort, and 14 miles southeast of Salt Lake City.

Drainage area.--27.4 sq mi.

Records available.--October 1898 to September 1965 (record intermittent prior to 1912). Monthly discharge only for October 1898 to September 1960 published in WSP 1314 and 1734. Records for October 1960 to September 1963 in the files of the Salt Lake City Water Department.

Gage.--Water-stage recorder and Parshall flume on the creek and separate weirs or rated gates on pipelines and ditches that bypass the flume.

Extremes.--1912-13, 1915-65: Maximum daily discharge, 762 cfs June 11, 1921; minimum daily, 4.2 cfs Jan. 10, 1934.

Remarks.--Some storage and regulation in several small lakes and reservoirs. Two diversions for irrigation above the station, one of which carries water past the station. Diversions above the station for powerplant and municipal water supply. Discharge is the combined discharge of Murray City powerplant pipeline (1675 A), irrigation diversions (1675 B, C), Little Cottonwood Creek (1675 D), and Beaver Pond Springs pipeline (1675 E). (See fig. 3 and tables 22-25.)

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	20	19	17	19	16	17	19	96	276	298	96	45
2	21	20	17	18	16	16	19	110	279	304	99	42
3	20	18	17	19	16	17	19	111	253	308	84	38
4	19	18	17	18	16	18	18	116	283	305	81	40
5	19	18	18	19	16	18	18	109	321	305	74	42
6	18	18	18	18	16	18	18	99	346	291	71	63
7	18	18	18	18	16	18	17	89	419	286	68	45
8	18	17	17	15	16	18	14	80	413	282	65	40
9	18	17	17	17	16	18	15	70	384	274	64	41
10	17	17	19	17	16	18	14	60	356	273	64	46
11	18	15	17	17	16	18	13	52	362	265	63	47
12	17	17	16	17	16	19	12	55	402	250	64	43
13	17	18	18	17	16	19	12	67	450	237	65	44
14	17	17	18	17	16	18	12	69	391	212	64	46
15	16	16	16	16	16	19	13	86	334	197	64	43
16	17	18	16	16	16	19	15	131	318	192	63	35
17	14	16	17	17	16	19	15	153	250	196	63	39
18	16	16	19	16	16	16	15	179	237	199	66	35
19	17	17	16	16	17	17	13	210	261	235	65	32
20	16	17	16	16	17	18	23	241	304	219	63	33
21	17	17	18	17	17	18	30	232	363	177	70	33
22	18	17	17	16	17	19	55	217	388	157	68	32
23	19	16	21	16	17	19	62	209	369	139	63	31
24	19	17	20	17	17	18	51	197	472	123	58	31
25	19	17	19	16	17	18	48	164	409	122	55	32
26	19	17	18	14	17	18	48	136	306	119	51	31
27	19	17	18	17	18	18	54	118	234	114	49	33
28	19	17	18	18	18	18	55	120	196	111	47	31
29	18	16	19	17	----------	18	61	144	212	106	47	32
30	18	17	18	19	----------	18	77	189	269	106	45	31
31	18	----------	19	19	----------	19	----------	246	----------	104	44	----------
Total	556	515	549	529	460	559	855	4.155	9.857	6.506	2.003	1.156
Mean	17.9	17.2	17.7	17.1	16.4	18.0	28.5	134	329	210	64.6	38.5
Ac-ft	1.100	1.020	1.090	1.050	912	1.110	1.700	8.240	19.550	12.900	3.970	2.290

Calendar year 1964 : Max 505 Min 10 Mean 70.5 Ac-ft 51,150
Water year 1964-65 : Max 472 Min 14 Mean 75.9 Ac-ft 54,930

Table 22.--1675 A. Murray City powerplant pipeline above Little Cottonwood Creek treatment plant, near Salt Lake City

Location.--In NE¼SW¼ sec. 2, T. 3 S., R. 1 E., immediately below the Murray City powerplant, and 13.5 miles southeast of Salt Lake City.

Records available.--October 1963 to September 1965. Records for previous years in the files of the Salt Lake City Water Department.

Gage.--Totalizing meters on the diversion to the Little Cottonwood Creek water treatment plant, 4-foot Lyman weir on the Sandy siphon (1675 H), and 24-inch rated gate on the Farmers pipeline.

Extremes.--1963-65: Maximum daily discharge, 35 cfs Apr. 23, 1965; minimum daily, 7 cfs Jan. 25, Feb. 3, 15, 1964.

Remarks.--Water diverted from Little Cottonwood Creek in NE¼SW¼ sec. 8, T. 3 S., R. 2 E. (unsurveyed), about 3.5 miles upstream. Most of the flow is delivered to the treatment plant but at times part of the flow is diverted into the Sandy siphon (1675 H) and (or) the Farmers pipeline, which returns water to the creek. (See fig. 3 and tables 26, 27.)

Cooperation.--Record furnished by the Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15	15	13	15	12	13	15					23
2	16	16	13	14	12	12	15					20
3	15	14	13	15	12	13	15					16
4	14	14	13	14	12	14	14					18
5	14	14	14	15	12	14	14					17
6	13	14	14	14	12	14	14					18
7	13	14	14	14	12	14	13					17
8	13	13	13	11	12	14	10					13
9	13	13	13	13	12	14	11					14
10	12	13	15	13	12	14	10					17
11	13	11	13	13	12	14	9					21
12	12	13	12	13	12	15	8				34	18
13	12	14	14	13	12	15	8					19
14	12	13	14	13	12	14	8					21
15	11	12	12	12	12	15	9	34	34	34		21
16	12	14	12	12	12	15	11					15
17	9	12	13	13	12	15	11					21
18	11	12	15	12	12	12	11					20
19	12	13	12	12	13	13	9					20
20	11	13	12	12	13	14	18					21
21	12	13	14	13	13	14	19					21
22	13	13	13	12	13	15	34					20
23	14	12	14	12	13	15	35					19
24	14	13	14	13	13	14	30				30	19
25	14	13	14	12	13	14	27				27	19
26	14	13	14	10	13	14	29				25	19
27	14	13	14	13	14	14					25	21
28	14	13	14	14	14	14	34				24	18
29	14	12	15	13	----------	14					24	19
30	14	13	14	15	----------	14					23	19
31	14	----------	15	15	----------	15	----------		----------		23	----------
Total	404	395	419	405	348	435	543	1,054	1,020	1,054	983	564
Mean	13.0	13.2	13.5	13.1	12.4	14.0	18.1	34	34	34	31.7	18.8
Ac-ft	801	783	831	803	690	863	1,080	2,090	2,020	2,090	1,950	1,120

Calendar year 1964: Max 34 Min 7 Mean 17.9 Ac-ft 13,010
Water year 1964-65: Max 35 Min 8 Mean 20.9 Ac-ft 14,040

Note.--Discharge estimated Apr. 27 to Aug. 23, when pipeline was flowing at or near capacity.

Table 23.--1675 B, C. Irrigation diversions from Little Cottonwood Creek above the gage (1675 D)

Locations.--South Despain Ditch (1675 B) diverts from the left bank in NE¼SE¼ sec. 12, T. 3 S., R. 1 E. North Despain Ditch (1675 C) diverts from the right bank in SW¼NE¼ sec. 12, T. 3 S., R. 1 E.

Records available.--October 1963 to September 1965. Records of individual diversions for previous years in the files of the Salt Lake City Water Department.

Extremes.--1963-65: Maximum daily discharge, 19 cfs July 3, 1965; no flow Apr. 1-19, 1965.

Remarks.--The record herein is the combined discharge of the two diversions described above.

Cooperation.--Records of individual diversions furnished by the Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.2	0.2	0.2	0.2	0.2	0	1.0	11	7.8	7.3	3.1
2	.2	.2	.2	.2	.2	.2	0	.8	15	15	7.3	2.8
3	.2	.2	.2	.2	.2	.2	0	.6	13	19	6.0	2.8
4	.2	.2	.2	.2	.2	.2	0	3.8	14	18	4.6	2.8
5	.2	.2	.2	.2	.2	.2	0	1.8	16	18	4.0	2.8
6	.2	.2	.2	.2	.2	.2	0	2.1	16	15	3.3	2.6
7	.2	.2	.2	.2	.2	.2	0	1.9	13	16	3.3	3.9
8	.2	.2	.2	.2	.2	.2	0	2.2	16	17	3.3	2.8
9	.2	.2	.2	.2	.2	.2	0	2.3	16	17	3.5	2.6
10	.2	.2	.2	.2	.2	.2	0	2.4	14	16	3.3	4.5
11	.2	.2	.2	.2	.2	.2	0	3.6	14	16	3.0	2.8
12	.2	.2	.2	.2	.2	.2	0	1.8	14	18	3.7	2.8
13	.2	.2	.2	.2	.2	.2	0	1.8	12	17	3.8	2.7
14	.2	.2	.2	.2	.2	.2	0	1.8	12	16	3.8	2.5
15	.2	.2	.2	.2	.2	.2	0	1.5	13	13	3.8	2.5
16	.2	.2	.2	.2	.2	.2	0	1.8	12	12	2.9	2.5
17	.2	.2	.2	.2	.2	.2	0	2.2	11	11	3.3	2.5
18	.2	.2	.2	.2	.2	.2	0	1.7	11	11	3.2	2.1
19	.2	.2	.2	.2	.2	.2	0	4.3	11	12	2.8	1.8
20	.2	.2	.2	.2	.2	.2	1.0	7.5	12	14	2.9	1.8
21	.2	.2	.2	.2	.2	.2	2.3	7.9	16	12	3.1	1.8
22	.2	.2	.2	.2	.2	.2	.6	11	14	9.8	3.0	2.0
23	.2	.2	.2	.2	.2	.2	.6	11	15	8.2	3.0	2.3
24	.2	.2	.2	.2	.2	.2	.6	10	14	5.6	3.5	2.3
25	.2	.2	.2	.2	.2	.2	.6	10	11	6.2	3.6	2.3
26	.2	.2	.2	.2	.2	.2	.7	9.2	11	5.4	3.4	2.3
27	.2	.2	.2	.2	.2	.2	.7	4.2	11	5.4	2.8	2.3
28	.2	.2	.2	.2	.2	.2	.7	4.3	4.7	6.5	2.9	2.9
29	.2	.2	.2	.2	----------	.2	.6	5.7	6.8	6.4	2.9	1.7
30	.2	.2	.2	.2	----------	.2	.7	5.2	7.5	4.8	2.9	1.6
31	.2	----------	.2	.2	----------	.2	----------	9.7	----------	4.8	2.9	----------
Total	6.2	6.0	6.2	6.2	5.6	6.2	9.1	135.1	377.0	373.9	113.1	76.2
Mean	0.2	0.2	0.2	0.2	0.2	0.2	0.30	4.36	12.6	12.1	3.65	2.54
Ac-ft	12	12	12	12	11	12	18	268	748	742	224	151

Calendar year 1964: Max 16 Min 0.2 Mean 2.55 Ac-ft 1,850
Water year 1964-65: Max 19 Min 0 Mean 3.07 Ac-ft 2,220

Table 24.--1675 D. Little Cottonwood Creek (channel only) near Salt Lake City

Location.--Lat 40°34'40", long 111°47'50", in NE¼NE¼ sec. 11, T. 3 S., R. 1 E., at mouth of canyon 100 ft west of Wasatch Drive, 2 miles downstream from Wasatch Resort, and 14 miles southeast of Salt Lake City.

Records available.--October 1963 to September 1965. Records for previous years in the files of the Salt Lake City Water Department.

Gage.--Water-stage recorder and Parshall flume. Altitude of the gage is 5,080 ft (from topographic map).

Extremes.--1963-65: Maximum daily discharge, 455 cfs June 5, 1964; no flow Jan. 1 to Apr. 20, 1964.

Remarks.--Diversions to Murray City powerplant pipeline (1675 A) and two irrigation ditches (1675 B, C) above the gage. Water in pipeline and one of the irrigation ditches bypasses this station. Water in the Beaver Pond Springs pipeline also bypasses this station. (See fig. 3.)

Cooperation.--Gage-height record furnished by the Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.8	1.0	1.0	0.8	0.8	0.8		58	227	253	50	15
2	.8	1.0	1.0	.8	a.8	a.8		72	226	250	43	15
3	.8	1.0	1.0	.8	a.8	a.8		73	202	250	39	15
4	.8	1.0	1.0	.8	a.8	a.8		75	*231	248	37	15
5	.8	1.0	1.0	.8	.8	.8		a70	267	248	31	18
6	.8	1.0	1.0	.8	a.8	a.8		a60	292	237	29	38
7	.8	1.0	1.0	.8	a.8	a.8		a50	368	231	26	20
8	.8	1.0	1.0	.8	a.8	a.8		a40	359	226	23	20
9	.8	1.0	1.0	.8	.8	.8		a30	a330	218	22	20
10	.8	1.0	1.0	.8	a.8	a.8	a1.0	a20	*304	218	22	20
11	.8	1.0	1.0	.8	a.8	a.8		11	a310	210	21	19
12	.8	1.0	1.0	.8	a.8	a.8		16	a350	*193	21	18
13	.8	1.0	1.0	.8	.8	.8		28	a400	181	22	18
14	.8	1.0	1.0	.8	a.8	a.8		30	a340	157	21	18
15	.8	1.0	1.0	.8	a.8	a.8		47	*282	145	21	15
16	.8	1.0	1.0	.8	.8	.8		92	267	141	21	13
17	.8	1.0	1.0	.8	a.8	a.8		113	200	146	21	11
18	.8	1.0	1.0	.8	a.8	a.8		140	187	149	24	8.5
19	.8	1.0	1.0	.8	.8	.8		168	211	184	23	6.1
20	.8	1.0	1.0	.8	a.8	a.8	1.4	196	253	166	21	6.1
21	.8	1.0	1.0	.8	a.8	a.8	5.3	187	*308	126	28	6.1
22	.8	1.0	1.0	.8	.8	.8	17	168	*335	*108	26	5.7
23	1.0	1.0	3.6	.8	a.8	a.8	*23	160	315	92	21	6.1
24	1.0	1.0	3.4	.8	a.8	a.8	17	149	419	78	20	6.1
25	1.0	1.0	1.8	.8	.8	.8	17	116	* 359	77	20	6.5
26	1.0	1.0	1.0	.8	a .8	a.8	15	*89	256	74	18	6.1
27	1.0	1.0	1.2	.8	a .8	a.8	16	76	184	69	17	5.7
28	1.0	1.0	1.2	.8	.8	a.8	17	78	152	65	16	6.5
29	1.0	1.0	.8	.8	----------	.8	23	101	168	60	16	7.3
30	1.0	1.0	.8	.8	----------	a.8	39	146	224	62	15	6.9
31	1.0	----------	.8	.8	----------	.8	----------	198	----------	60	14	----------
Total	26.6	30.0	36.6	24.8	22.4	24.8	209.7	2,857	8,326	4,922	749	391.7
Mean	0.86	1.00	1.18	0.80	0.80	0.80	6.99	92.2	278	159	24.2	13.1
Ac-ft	53	60	73	49	44	49	416	5,670	16,510	9,760	1,490	777

Calendar year 1964: Max 455 Min 0 Mean 46.7 Ac-ft 33,950
Water year 1964-65: Max 419 Min 0.8 Mean 48.3 Ac-ft 34,950

* Discharge measurement made on this day.
a No gage-height record; discharge estimated.

Table 25.--1675 E. Beaver Pond Springs pipeline near Salt Lake City

Location.--In NE¼NE¼ sec. 11, T. 3 S., R. 1 E., about 100 feet south of gage on Little Cottonwood Creek (1675 D) and 100 ft west of Wasatch Drive.

Records available.--October 1963 to September 1965. Records for previous years in the files of the Salt Lake City Water Department.

Gage.--Thirty-inch Cipolletti weir.

Extremes.--1963-65: Maximum daily discharge, 5.2 cfs July 23-31, 1965; minimum daily, 1.2 cfs Apr. 22, 1964.

Remarks.--Flow includes water collected in a pipeline system from Beaver Pond Springs and pumped from four wells (D-3-1)12acd-1, 12adc-1, 12bdc-1, and 12cab-1.

Cooperation.--Record furnished by the Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.2	3.2	3.2	2.8	2.8	2.9	2.9	3.1	3.8	3.7	5.1	4.1
2	4.2	3.2	3.2	2.8	2.8	2.9	2.9	3.1	3.8	5.0	5.1	4.1
3	4.2	3.2	3.2	2.8	2.8	2.9	2.9	3.1	3.8	5.0	5.1	4.2
4	4.2	3.2	3.2	2.8	2.8	2.9	2.9	3.2	3.8	5.0	5.1	4.2
5	4.2	3.2	3.2	2.8	2.8	2.9	2.9	3.2	4.0	4.9	5.0	4.1
6	4.2	3.2	3.2	2.8	2.8	2.9	2.9	3.2	4.0	4.9	5.0	4.1
7	4.2	3.2	3.2	2.8	2.8	2.9	2.8	3.3	4.1	4.9	5.0	4.1
8	4.2	3.2	2.9	2.8	2.8	2.9	2.8	3.3	4.1	4.9	5.0	4.1
9	4.2	3.2	2.9	2.8	2.8	2.9	2.8	3.3	4.1	4.9	5.0	4.1
10	4.2	3.2	2.9	2.8	2.8	2.9	2.9	3.3	4.1	4.9	5.0	4.1
11	4.2	3.2	2.9	2.8	2.8	2.9	2.9	3.3	4.2	4.9	5.0	4.1
12	4.2	3.2	2.9	2.8	2.8	2.9	2.9	3.3	4.3	5.0	5.0	4.1
13	4.2	3.2	2.9	2.8	2.8	2.9	2.9	3.3	4.4	5.0	5.0	4.1
14	4.2	3.2	2.9	2.8	2.8	2.9	2.9	3.3	4.6	5.0	5.0	4.1
15	4.2	3.2	2.9	2.8	2.8	2.9	2.9	3.4	4.8	5.0	5.0	4.1
16	4.2	3.2	2.9	2.8	2.8	2.9	2.9	3.4	4.8	5.0	5.0	4.1
17	4.2	3.2	2.9	2.8	2.8	2.9	2.9	3.4	4.9	5.0	5.0	4.1
18	4.2	3.2	2.9	2.8	2.8	2.9	2.9	3.6	4.9	5.0	5.0	4.0
19	4.2	3.2	2.9	2.8	2.8	2.9	2.9	3.6	4.9	5.0	5.0	3.9
20	4.2	3.2	2.9	2.8	2.8	2.9	2.9	3.6	4.9	5.0	4.8	3.9
21	4.2	3.2	2.9	2.8	2.8	2.9	3.0	3.6	4.9	5.0	4.8	3.8
22	4.2	3.2	2.9	2.8	2.8	2.9	3.0	3.6	5.0	5.0	4.8	3.8
23	4.2	3.2	2.9	2.8	2.8	2.9	3.0	3.6	5.0	5.2	4.8	3.8
24	4.2	3.2	2.9	2.8	2.8	2.9	3.0	3.6	5.0	5.2	4.8	3.8
25	4.2	3.2	2.9	2.8	2.8	2.9	3.0	3.6	5.0	5.2	4.8	3.8
26	4.2	3.2	2.9	2.8	2.8	2.9	3.1	3.6	5.0	5.2	4.8	3.8
27	4.2	3.2	2.8	2.7	2.8	2.9	3.1	3.8	5.0	5.2	4.4	3.8
28	4.2	3.2	2.8	2.7	2.8	2.9	3.1	3.8	5.0	5.2	4.4	3.7
29	3.2	3.2	2.8	2.7	----------	2.9	3.1	3.8	3.7	5.2	4.4	3.7
30	3.2	3.2	2.8	2.7	----------	2.9	3.1	3.8	3.7	5.2	4.4	3.7
31	3.2	----------	2.8	2.7	----------	2.9	----------	3.8	----------	5.2	4.4	----------
Total	127.8	96.0	91.5	86.3	78.4	89.9	88.2	106.9	133.6	154.8	151.0	119.4
Mean	4.10	3.20	2.95	2.78	2.80	2.90	2.94	3.45	4.45	4.99	4.87	3.98
Ac-ft	252	190	181	171	156	178	175	212	265	307	300	237

Calendar year 1964: Max 4.7 Min 1.2 Mean 3.28 Ac-ft 2,380
Water year 1964-65: Max 5.2 Min 2.7 Mean 3.63 Ac-ft 2,620

Table 26.--1675 F. Diversion to Little Cottonwood Creek treatment plant, near Salt Lake City

Location.--In NW¼SE¼ sec. 2, T. 3 S., R. 1 E., at water treatment plant of the Metropolitan Water District of Salt Lake City, immediately below Murray City powerplant and 13.5 miles southeast of Salt Lake City.

Records available.--October 1963 to September 1965. Records for previous years in the files of Salt Lake City Water Department and the Metropolitan Water District of Salt Lake City.

Gage.--Two totalizing meters in treatment plant.

Extremes.--1963-65: Maximum daily discharge, 74 cfs July 3, 1964; no flow on several days.

Remarks.--Discharge includes water diverted from Little Cottonwood Creek through the Murray City powerplant pipeline (1675 A) and from the creek about 400 ft downstream from the gage on Little Cottonwood Creek (1675 D). (See fig. 3.)

Cooperation.--Record furnished by the Metropolitan Water District of Salt Lake City.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.3	12	11	13	10	11	14	5.0	32	46	8.7	19
2	9.4	13	11	12	4.2	10	14	3.3	26	37	8.3	17
3	8.6	12	11	13	5.4	11	14	5.6	23	31	13	12
4	8.2	12	11	12	8.0	12	14	5.6	51	34	26	15
5	7.8	12	9.7	9.6	8.0	12	13	5.6	51	24	37	13
6	7.8	11	7.8	8.2	7.9	12	13	5.4	61	41	35	5.4
7	7.7	11	7.9	12	8.2	12	12	5.5	53	43	34	11
8	7.4	11	9.3	9.2	8.2	12	9.5	5.6	50	31	31	3.6
9	7.6	11	9.0	11	8.7	12	9.8	5.5	35	60	27	5.2
10	6.9	11	11	11	6.1	12	8.8	5.5	16	61	18	13
11	7.0	9.5	11	11	5.6	12	7.8	5.4	33	30	31	16
12	6.6	12	10	11	7.2	13	6.6	7.6	39	49	32	15
13	6.6	12	5.1	11	7.9	13	5.8	13	14	55	26	16
14	6.2	11	8.4	11	8.7	12	5.5	16	21	50	15	17
15	5.5	9.9	10	10	10	13	6.7	16	38	50	25	17
16	9.4	12	10	10	10	13	8.8	16	29	45	33	11
17	6.1	10	5.9	11	11	13	8.4	27	30	17	25	8.0
18	8.5	10	8.6	10	10	10	8.6	32	40	13	7.2	6.2
19	10	11	10	10	11	11	6.3	33	39	6.2	7.9	8.2
20	8.8	11	10	10	11	12	8.6	24	40	31	8.3	5.0
21	9.4	11	10	11	11	12	2.7	20	40	41	7.4	6.4
22	10	11	11	10	11	13	.5	20	43	44	3.4	7.3
23	12	10	12	10	11	13	0	20	54	50	3.2	8.2
24	12	11	9.6	11	11	12	0	20	22	36	3.3	7.4
25	12	11	8.5	9.6	11	12	0	20	6.6	15	8.5	6.8
26	12	11	7.5	8.1	11	12	5.3	17	6.8	15	16	12
27	12	11	6.5	11	12	12	9.2	15	6.4	20	13	17
28	11	11	6.7	12	12	12	12	15	9.0	41	18	15
29	11	10	8.9	6.1	----------	12	14	27	32	50	17	3.8
30	11	11	12	9.7	----------	12	10	47	47	33	11	2.5
31	12	----------	13	13	----------	13	----------	51	----------	8.8	15	----------
Total	279.8	332.4	293.4	327.5	257.1	373	248.9	514.6	987.8	1,108.0	564.2	320.0
Mean	9.03	11.1	9.46	10.6	9.18	12.0	8.30	16.6	32.9	35.7	18.2	10.7
Ac-ft	555	659	582	650	510	740	494	1,020	1,960	2,200	1,120	635

Calendar year 1964: Max 74 Min 0 Mean 14.5 Ac-ft 10,540
Water year 1964-65: Max 61 Min 0 Mean 15.4 Ac-ft 11,120

Table 27.--1675 G-N. Irrigation diversions from Little Cottonwood Creek between gaging stations 1675 D and 1677

Locations.--Sandy Ditch (1675 G) diverts from the left bank in NE¼NE¼ sec. 11, T. 3 S., R. 1 E. Sandy siphon (1675 H) diverts from the Murray City powerplant tailrace in NE¼SE¼ sec. 2, T. 3 S., R. 1 E. Thompson (1675 I) and Lym (1675 J) Ditches divert from the left bank in SW¼SW¼ sec. 2, T. 3 S., R. 1 E. Nichols and Last Chance Ditch (1675 K) diverts from Little Cottonwood Creek cutoff ditch (1675 T) in SE¼NW¼ sec. 2, T. 3 S., R. 1 E. Johnson Ditch (1675 L) diverts from Little Cottonwood Creek cutoff ditch in NE¼SE¼ sec. 34, T. 2 S., R. 1 E. Richards Ditch (1675 M) diverts from the left bank in SW¼NE¼ sec. 34, T. 2 S., R. 1 E. Greenwood Ditch (1675 N) diverts from the right bank in NE¼NW¼ sec. 34, T. 2 S., R. 1 E.

Records available.--October 1963 to September 1965. Records of individual diversions for previous years in the files of the Little Cottonwood Creek Water Commissioner and of the Salt Lake City Water Department.

Extremes.--1963-65: Maximum daily discharge, 125 cfs June 16, 1964 and July 5, 1965; no flow on many days.

Remarks.--The record herein is the combined discharge of the eight diversions.

Cooperation.--Records of individual diversions furnished by the water commissioner and the water department.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.1	2.5	2.0	2.0	2.0	2.0	0	22	117	112	30	11
2	6.1	2.5	2.0	2.0	2.0	2.0	0	28	116	110	32	9.2
3	6.1	2.5	2.0	2.0	2.0	2.0	0	33	107	114	26	9.2
4	6.1	2.5	2.0	2.0	2.0	2.0	0	34	107	120	24	9.2
5	6.1	2.5	2.0	2.0	2.0	2.0	0	34	110	125	18	16
6	5.6	2.5	2.0	2.0	2.0	2.0	0	26	111	123	16	16
7	5.6	2.5	2.0	2.0	2.0	2.0	0	20	111	114	14	16
8	5.6	2.5	2.0	2.0	2.0	2.0	0	17	118	108	14	12
9	5.6	2.5	2.0	2.0	2.0	2.0	0	14	91	107	14	11
10	5.6	1.8	2.0	2.0	2.0	2.0	0	14	99	106	14	12
11	5.6	1.8	2.0	2.0	2.0	2.0	0	14	100	109	13	10
12	5.6	1.8	2.0	2.0	2.0	2.0	0	16	98	113	13	10
13	5.6	1.8	2.0	2.0	2.0	2.0	0	21	85	108	12	8.6
14	5.6	1.8	2.0	2.0	2.0	2.0	0	19	66	96	14	8.8
15	5.6	2.0	2.0	2.0	2.0	2.0	0	27	63	95	13	9.0
16	2.5	2.0	2.0	2.0	2.0	2.0	0	29	68	79	12	8.4
17	2.5	2.0	2.0	2.0	2.0	2.0	.4	61	66	81	12	11
18	2.5	2.0	2.0	2.0	2.0	2.0	.4	71	69	87	12	11
19	2.5	2.0	2.0	2.0	2.0	2.0	.8	80	88	90	12	11
20	2.5	2.0	2.0	2.0	2.0	2.0	2.4	87	95	88	16	10
21	2.5	2.0	2.0	2.0	2.0	2.0	2.7	86	100	71	16	10
22	2.5	2.0	2.0	2.0	2.0	2.0	6.0	97	105	66	15	10
23	2.5	2.0	2.0	2.0	2.0	2.0	6.5	103	99	51	15	9.7
24	2.5	2.0	2.0	2.0	2.0	2.0	6.0	104	108	55	15	9.7
25	2.5	2.0	2.0	2.0	2.0	2.0	5.0	101	102	53	15	9.7
26	2.5	2.0	2.0	2.0	2.0	2.0	4.0	78	92	53	15	9.7
27	2.5	2.0	2.0	2.0	2.0	2.0	3.6	76	78	53	12	7.7
28	2.5	2.0	2.0	2.0	2.0	2.0	6.5	44	70	28	12	7.7
29	2.5	2.0	2.0	2.0	----------	2.0	6.5	49	101	28	11	9.2
30	2.5	2.0	2.0	2.0	----------	2.0	8.3	56	109	27	10	9.2
31	2.5	----------	2.0	2.0	----------	2.0	----------	102	----------	29	10	----------
Total	126.5	63.5	62.0	62.0	56.0	62.0	59.1	1,563	2,849	2,599	477	312.0
Mean	4.08	2.12	2.0	2.0	2.0	2.0	1.97	50.4	95.0	83.8	15.4	10.4
Ac-ft	251	126	123	123	111	123	117	3,100	5,650	5,160	946	619

Calendar year 1964: Max 125 Min 0 Mean 18.8 Ac-ft 13,650
Water year 1964-65: Max 125 Min 0 Mean 22.7 Ac-ft 16,450

Table 28.--1677. Little Cottonwood Creek at 2050 East, near Salt Lake City

Location.--Lat 40°36'29", long 111°49'51", in NW¼NW¼ sec. 34, T. 2 S., R. 1 E., 100 ft upstream from bridge on Utah State Highway 210, and 11 miles southeast of Salt Lake City.

Drainage area.--33.8 sq mi.

Records available.--October 1963 to September 1965.

Gage.--Water-stage recorder.

Extremes.--1963-65: Maximum daily discharge, 486 cfs June 7, 1964; no flow for long periods.

Remarks.--Record good. Many diversions for irrigation and municipal water supply above the station. (See fig. 3.) During 15 days in October 108 acre-ft of exchange water for irrigation was pumped from well (D-2-1)34bbb into the creek 50 ft below the station.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	2.6	0	0	0.5		0	57	95	154	28	3.9
2	0	2.6	.9	0	3.3		0	66	95	143	26	4.5
3	0	1.6	2.0	0	2.2		0	62	84	154	25	6.5
4	0	1.0	*2.0	0	1.9		0	62	*84	137	*20	4.5
5	*0	.6	2.0	.8	2.0		0	58	137	149	15	10
6	0	.7	.9	2.3	2.6		*0	*46	154	119	13	40
7	0	.3	0	0	2.0		0	42	238	109	13	28
8	0	*0	0	0	b 1.1		.5	38	221	*129	15	29
9	0	0	0	0	1.9	(*)	.8	32	190	86	16	27
10	0	.2	0	0	b 1.5		1.0	27	*251	76	20	16
11	0	.3	0	0	b .8		1.2	24	258	100	12	12
12	0	.2	0	0	b 1.0		1.9	24	285	76	9.5	9.5
13	0	.4	0	0	b .8		2.8	25	391	48	13	6.1
14	0	.5	0	0	1.2		2.6	25	307	46	21	5.1
15	0	.2	0	0	.6		2.6	32	*234	46	12	4.5
16	0	.2	0	*0	*0		2.5	48	175	53	5.1	10
17	.4	0	*0	0	0		2.2	74	146	74	8.0	13
18	2.6	0	.2	0	0		1.4	76	126	78	21	13
19	0	*0	.2	0	0		2.2	80	146	106	14	13
20	0	0	0	0	0		4.5	100	196	68	22	14
21	0	0	0	0	0		13	109	*234	44	27	12
22	0	.1	0	0	0		28	80	244	38	25	12
23	0	1.4	3.6	0	0		*41	72	285	*26	21	12
24	0	0	3.0	0	0		32	*60	376	21	21	12
25	0	0	4.8	0	0		35	32	*275	32	16	12
26	0	0	3.9	0	0		29	22	199	30	13	10
27	0	.1	4.5	0	.3		28	16	126	27	10	12
28	1.5	.5	4.2	0	0		25	26	102	16	7.0	7.5
29	0	.5	1.7	0	----------		26	53	82	15	7.0	16
30	1.1	0	0	0	----------		38	62	97	27	9.0	16
31	2.5	----------	0	0	----------		----------	69	----------	42	6.1	----------
Total	8.1	14.0	33.9	3.1	23.7	0	321.2	1,599	5,833	2,269	490.7	391.1
Mean	0.26	0.47	1.09	0.10	0.85	0	10.7	51.6	194	73.2	15.8	13.0
Ac-ft	16	28	67	6	47	0	637	3,170	11,570	4,500	973	776

Calendar year 1964 : Max 486 Min 0 Mean 28.3 Ac-ft 20,540
Water year 1964-65 : Max 391 Min 0 Mean 30.1 Ac-ft 21,790

* Discharge measurement or field observation of no flow made on this day.
b Stage-discharge relation affected by ice.

Table 29.--1677 A-D. Irrigation diversions from Little Cottonwood Creek below gaging station at 2050 East

Locations.--Tanner Ditch (1677 A) diverts from the right bank in the NW¼NW¼ sec. 28, T. 2 S., R. 1 E. Cahoon and Maxfield (1677 B) and Walker (1677 C) Ditches divert from the left bank in SE¼NE¼ sec. 29, T. 2 S., R. 1 E. An unnamed ditch (1677 D) diverts from the right bank of Little Cottonwood Creek at Murray in NE¼NE¼ sec. 12, T. 2 S., R. 1 W.

Records available.--April 1964 to September 1965. Records of individual diversions for previous years in the files of the Little Cottonwood Creek Water Commissioner.

Extremes.--1964-65: Maximum daily discharge, 66 cfs May 27, 1964; no flow during several months each year.

Remarks.--The record herein is the combined discharge of the three named diversions. Not included is an additional small discharge from the unnamed diversion. The diversions from Little Cottonwood Creek are supplemented at times by Utah Lake exchange water from the East Jordan Canal and the Jordan and Salt Lake City Canal. (See fig. 3 and table 20.)

Cooperation.--Records of the three named diversions furnished by the Little Cottonwood Creek Water Commissioner.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.6						0.4	24	39	32	11	2.3
2	2.8						.4	22	34	39	9.6	2.4
3	3.0						.4	32	51	42	7.3	2.4
4	3.1						.4	35	49	42	6.2	2.1
5	2.8						.4	38	42	42	6.2	2.5
6	2.8						.4	31	42	42	4.9	4.9
7	2.8						.4	24	40	51	4.6	4.6
8	2.7						.4	21	35	51	5.1	4.6
9	2.7						.4	18	53	44	5.2	6.0
10	2.4						.4	15	60	31	8.2	6.2
11	2.0						.4	12	49	29	4.6	3.1
12	2.5						.9	12	40	35	3.6	5.5
13	2.3						1.6	21	41	31	4.9	3.9
14	2.4						1.5	21	42	26	8.0	2.3
15	2.4						1.5	26	40	25	4.4	2.0
16	0						1.4	30	39	27	3.2	2.7
17	0						1.5	37	34	40	3.8	3.7
18	0						.8	44	37	44	14	3.8
19	0						1.0	52	52	45	11	3.8
20	0						5.2	51	63	17	19	4.7
21	0						9.3	51	63	19	18	4.7
22	0						18	51	51	20	3.7	4.0
23	0						13	50	53	10	3.5	4.0
24	0						9.7	44	44	9.4	9.7	4.0
25	0						9.2	29	39	14	10	5.5
26	0						8.7	23	26	13	7.5	8.4
27	0						13	13	26	11	3.5	7.0
28	0						17	17	28	6.8	2.8	5.9
29	0						13	39	27	6.1	2.5	3.6
30	0				----------		23	39	35	13	2.8	4.1
31	0	----------			----------		----------	35	----------	19	2.7	----------
Total	39.3	0	0	0	0	0	153.7	957	1,274	876.3	211.5	124.7
Mean	1.27	0	0	0	0	0	5.12	30.9	42.5	28.3	6.82	4.16
Ac-ft	78	0	0	0	0	0	305	1,900	2,530	1,740	420	247

Calendar year 1964: Max 66 Min 0 Mean 7.45 Ac-ft 5,410
Water year 1964-65: Max 63 Min 0 Mean 9.96 Ac-ft 7,220

Note.--Mean discharge for the 1964 calendar year is based on the assumption of no flow Jan. 1 to Mar. 31, 1964.

Table 30.--1685. Big Cottonwood Creek near Salt Lake City

Location.--Lat 40°37'07", long 111°46'52", in SW¼NE¼ sec. 25, T. 2 S., R. 1 E., at Big Cottonwood Creek water treatment plant at mouth of canyon, and 12 miles southeast of Salt Lake City.

Drainage area.--50 sq mi.

Records available.--October 1898 to September 1965. Monthly discharge only for October 1898 to September 1960 published in WSP 1314 and 1734. Records for October 1960 to September 1963 in the files of the Salt Lake City Water Department.

Extremes.--1898-1965: Maximum daily discharge, 835 cfs June 1909; minimum daily, 45 cfs Jan. 10, 1937.

Remarks.--Record herein is the combined discharge of Big Cottonwood Creek flume at the water treatment plant, Utah Power and Light Company tailrace above the water treatment plant, and Butler Ditch. (See fig. 4 and tables 31-33.) Record not adjusted for storage of municipal water in Lake Mary (capacity, 742 acre ft) and Twin Lakes (capacity, 937 acre-ft). Records for this gaging station published in U.S. Geological Survey Water Supply Papers 1314 and 1734 do not include the flow of Butler Ditch.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	27	25	33	34	39	30	33	211	296	235	79	62
2	27	26	28	32	40	29	42	212	290	234	74	66
3	28	24	29	36	38	29	52	195	288	228	71	66
4	28	25	27	30	37	28	49	183	310	229	67	64
5	27	24	27	30	37	27	45	170	329	225	65	139
6	26	24	25	30	38	27	51	149	350	218	66	175
7	26	24	24	32	34	28	43	138	394	209	67	106
8	26	26	24	31	36	28	48	109	379	204	65	80
9	26	25	24	28	34	29	47	95	350	198	61	65
10	26	27	23	28	31	30	46	101	401	172	60	60
11	27	26	24	27	34	30	44	84	414	166	60	59
12	25	27	21	25	31	30	44	96	437	154	63	58
13	25	26	21	24	33	29	34	114	419	160	18	57
14	25	26	24	24	31	29	39	132	376	154	54	67
15	24	27	24	25	30	29	44	165	340	142	58	67
16	26	26	23	25	31	29	47	193	310	152	53	70
17	25	27	19	25	30	30	57	235	271	152	56	72
18	25	26	22	26	29	29	70	270	243	146	61	67
19	26	26	23	26	30	29	66	257	265	164	67	68
20	25	26	23	26	31	29	115	329	280	152	64	65
21	25	27	23	27	32	29	138	305	299	129	78	72
22	25	24	33	26	31	29	151	290	303	127	67	70
23	26	25	107	28	30	29	151	269	294	119	62	69
24	25	25	75	29	30	27	130	229	329	113	59	66
25	25	26	48	28	30	27	132	217	290	107	58	66
26	25	27	40	27	30	26	118	186	257	99	57	65
27	24	25	39	28	32	28	111	168	223	96	51	61
28	25	26	38	28	30	26	121	171	207	84	51	61
29	24	25	36	33	----------	26	140	197	206	83	51	60
30	27	25	38	68	----------	28	175	232	206	92	50	60
31	25	----------	37	52	----------	28	----------	276	----------	88	54	----------
Total	796	768	1,002	938	919	881	2,383	5,978	9,356	4,831	1,867	2,183
Mean	25.7	25.6	32.3	30.3	32.8	28.4	79.4	193	312	156	60.2	72.8
Ac-ft	1,580	1,520	1,990	1,860	1,820	1,750	4,730	11,860	18,560	9,580	3,700	4,330

Calendar year 1964: Max 451 Min 12 Mean 74.4 Ac-ft 54,040
Water year 1964-65: Max 437 Min 18 Mean 87.4 Ac-ft 63,280

Note.--Mean discharge for the 1964 calendar year adjusted for flow in Butler Ditch Jan. 1 to Mar. 31, 1964 not included in previously published record. (See remarks, table 32.)

Table 31.--1685 A. Utah Power and Light Company tailrace above Big Cottonwood Creek treatment plant, near Salt Lake City

Location.--In SW¼NE¼ sec. 25, T. 2 S., R. 1 E., immediately above Big Cottonwood Creek treatment plant at mouth of canyon, and 12 miles southeast of Salt Lake City.

Records available.--October 1963 to September 1965. Records for previous years in the files of the Salt Lake City Water Department.

Gage.--48-inch Sparling meter and 4-foot Parshall flume.

Extremes.--1963-65: Maximum daily discharge, 60 cfs May 2, 1964; minimum daily, 2 cfs Aug. 13, 1965.

Remarks.--Water diverted from the right bank of Big Cottonwood Creek below the Stairs powerplant in SE¼SW¼ sec. 20, T. 2 S., R. 2 E., 1.5 miles upstream. Part of the flow is delivered to the water treatment plant through a 48-inch Sparling meter and the balance is returned to the creek 600 ft downstream after passing through a 4-foot Parshall flume. (See fig. 4.)

Cooperation.--Record of discharges, 8 a.m. to 8 a.m., furnished by the Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22	21	26	25	26	22	26	52	53	54	51	53
2	22	21	21	25	27	21	34	51	53	55	51	54
3	23	19	21	27	26	22	42	54	54	52	52	54
4	23	21	20	24	26	21	31	50	55	53	52	53
5	22	20	21	25	26	20	33	51	54	52	52	48
6	21	19	17	25	27	21	25	47	54	53	53	51
7	21	19	17	25	27	21	30	54	54	53	54	50
8	21	19	17	24	26	21	24	52	53	51	54	54
9	21	20	17	21	25	22	25	52	51	53	51	52
10	21	19	17	23	23	23	26	58	52	52	49	51
11	22	19	19	22	24	23	25	51	54	53	51	52
12	20	19	16	21	21	23	17	51	51	51	53	51
13	20	19	16	20	22	22	21	50	52	52	2	50
14	20	19	18	20	21	22	25	53	50	52	41	54
15	20	19	18	21	20	22	18	52	50	52	50	53
16	21	18	17	21	21	22	26	52	52	52	48	53
17	21	19	14	21	20	22	19	53	52	54	50	54
18	21	18	16	22	22	21	25	53	50	40	52	53
19	22	18	16	22	23	21	26	52	52	50	54	53
20	21	18	16	22	24	21	29	54	52	52	53	50
21	21	19	16	22	25	21	28	52	53	52	51	44
22	21	17	23	21	23	21	29	52	54	45	55	54
23	22	18	21	22	23	21	38	52	54	47	54	54
24	21	19	16	23	23	19	46	52	52	53	52	52
25	21	20	23	22	24	20	48	54	53	54	51	52
26	21	20	26	21	24	20	49	51	50	53	51	52
27	20	18	26	22	24	21	35	52	53	54	46	52
28	21	19	26	22	22	20	50	54	54	54	45	51
29	20	18	25	25	----------	20	51	55	53	53	45	48
30	21	18	28	43	----------	22	51	48	53	48	45	52
31	20	----------	28	26	----------	22	----------	54	----------	49	49	----------
Total	654	570	618	725	665	660	952	1,618	1,577	1,598	1,517	1,554
Mean	21.1	19.0	19.9	23.4	23.8	21.3	31.7	52.2	52.6	51.5	48.9	51.8
Ac-ft	1,300	1,130	1,230	1,440	1,320	1,310	1,890	3,210	3,130	3,170	3,010	3,080

Calendar year 1964 : Max 60 Min 8 Mean 30.3 Ac-ft 22,040
Water year 1964-65: Max 58 Min 2 Mean 34.8 Ac-ft 25,220

Table 32.--1685 B. Butler Ditch near Salt Lake City

Location.--In SE¼NW¼ sec. 25, T. 2 S., R. 1 E., about 1.4 miles below point of diversion from Big Cottonwood Creek and 0.4 mile southwest of Big Cottonwood Creek treatment plant.

Records available.--April 1964 to September 1965. Records for previous years in the files of the Salt Lake City Water Department.

Gage.--Rectangular weir.

Extremes.--1964-65: Maximum daily discharge, 2.3 cfs June 4-7, 1964, May 24-26, 1965; minimum daily, 0.1 cfs May 14-16, 27, 1965.

Remarks.--Water diverted from the left bank of Big Cottonwood Creek in SE¼SW¼ sec. 19, T. 2 S., R. 2 E. (unsurveyed). The record published for this station in Utah Basic-Data Release No. 11 does not include a flow of from 0.3 to 0.9 cfs during October 1963 to March 1964. Monthly and annual data for this period are listed below:

	Oct. 1963	Nov.	Dec.	Jan. 1964	Feb.	Mar.	1964 Water year
Mean	0.60	0.58	0.30	0.30	0.30	0.30	0.71
Acre-feet	37	35	18	18	17	18	510

Cooperation.--Record furnished by the Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.9	0.9	0.9	0.3	0.3	0.3	0.3	0.4	1.2	0.6	0.7	1.7
2	.9	.9	.9	.3	.3	.3	.3	.4	1.2	.6	.7	1.7
3	.9	.9	.9	.3	.3	.3	.3	.4	1.2	.6	.7	1.7
4	.9	.9	.9	.3	.3	.3	.3	.4	1.0	.6	.7	1.7
5	.9	.9	.9	.3	.3	.3	.4	.4	1.0	.6	.7	1.7
6	.9	.9	.9	.3	.3	.3	.4	.4	1.0	.6	.7	1.7
7	.9	.9	.9	.3	.3	.3	.4	.4	1.0	.6	.7	1.7
8	.9	.9	.9	.3	.3	.3	.4	.4	1.0	.6	.7	1.7
9	.9	.9	.9	.3	.3	.3	.4	.4	1.0	.6	.7	1.7
10	.9	.9	.9	.3	.3	.3	.4	.4	.4	.5	.7	1.7
11	.9	.9	.3	.3	.3	.3	.4	.2	.4	.5	.7	1.7
12	.9	.9	.3	.3	.3	.3	.4	.2	.4	.5	.7	1.7
13	.9	.9	.3	.3	.3	.3	.4	.2	.4	.5	.7	1.7
14	.9	.9	.3	.3	.3	.3	.4	.1	1.1	.5	.7	1.7
15	.9	.9	.3	.3	.3	.3	.4	.1	1.1	.6	.7	1.7
16	.9	.9	.3	.3	.3	.3	.4	.1	1.1	.6	.7	1.7
17	.9	.9	.3	.3	.3	.3	.4	2.2	1.1	.6	.7	1.7
18	.9	.9	.3	.3	.3	.3	.4	2.2	1.1	.6	.7	1.7
19	.9	.9	.3	.3	.3	.3	.4	2.2	1.1	.6	.7	1.7
20	.9	.9	.3	.3	.3	.3	.4	2.2	1.1	.6	.7	1.7
21	.9	.9	.3	.3	.3	.3	.4	2.2	.8	.6	.7	1.7
22	.9	.9	.3	.3	.3	.3	.4	2.2	.8	.6	.7	1.7
23	.9	.9	.3	.3	.3	.3	.4	2.2	.8	.7	1.7	1.7
24	.9	.9	.3	.3	.3	.3	.4	2.3	.8	.7	1.7	1.7
25	.9	.9	.3	.3	.3	.3	.4	2.3	1.0	.7	1.7	1.7
26	.9	.9	.3	.3	.3	.3	.4	2.3	1.0	.7	1.7	1.7
27	.9	.9	.3	.3	.3	.3	.4	.1	1.0	.7	1.7	1.7
28	.9	.9	.3	.3	.3	.3	.4	1.0	.6	.7	1.7	1.7
29	.9	.9	.3	.3	----------	.3	.4	1.0	.6	.7	1.7	1.7
30	.9	.9	.3	.3	----------	.3	.4	1.0	.6	.7	1.7	1.7
31	.9	----------	.3	.3	----------	.3	----------	1.0	----------	.7	1.7	----------
Total	27.9	27.0	15.3	9.3	8.4	9.3	11.6	31.3	26.9	19.0	30.7	51.0
Mean	0.90	0.90	0.49	0.30	0.30	0.30	0.39	1.01	0.90	0.61	0.99	1.70
Ac-ft	55	54	30	18	17	18	23	62	53	38	61	101

Calendar year 1964 : Max 2.3 Min 0.3 Mean 0.77 Ac-ft 559
Water year 1964-65 : Max 2.3 Min 0.1 Mean 0.73 Ac-ft 530

Table 33.--1685 C. Big Cottonwood Creek flume at water treatment plant, near Salt Lake City

Location.--In SW¼NE¼ sec. 25, T. 2 S., R. 1 E., at Big Cottonwood Creek water treatment plant at mouth of canyon, and 12 miles southeast of Salt Lake City.

Records available.--October 1963 to September 1965. Records for previous years in the files of the Salt Lake City Water Department.

Gage.--Water-stage recorder, staff, and hook gages in a concrete well and a 14-foot concrete flume control.

Extremes.--1963-65: Maximum daily discharge, 399 cfs May 22, 1964; minimum daily, 2.9 cfs Oct. 17, 1965.

Remarks.--Records fair. Diversions to the Utah Power and Light Co. powerplant, about 2 miles upstream, and to Butler Ditch, about three-quarters of a mile upstream, bypass this station. (See fig. 4.)

Cooperation.--Average 24-hour gage heights based on readings every 2 hours, 8 a.m. to 8 a.m., furnished by the Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.4	3.2	d6.0	8.2	13	7.4	d 7	158	d242	180	27	7.4
2	4.0	4.4	d6.0	6.8	13	7.4	d 8	161	236	178	22	10
3	4.0	4.0	6.8	8.2	12	6.8	10	141	233	175	18	10
4	3.6	3.2	5.7	5.7	11	6.2	18	133	*254	175	14	9.0
5	4.0	3.6	5.2	5.2	11	6.8	12	119	273	172	12	89
6	4.0	3.6	6.8	5.2	11	5.7	26	102	295	164	12	122
7	4.0	3.6	6.2	6.8	6.8	6.2	13	84	339	155	12	54
8	4.0	5.7	6.2	6.8	10	6.2	24	57	325	152	10	24
9	4.0	4.0	6.2	6.8	8.2	6.8	22	43	*298	144	9.0	11
10	4.0	6.8	5.2	4.4	7.4	6.2	20	43	349	119	9.0	7.4
11	4.0	6.2	5.2	4.4	10	6.8	19	33	360	113	8.2	5.2
12	4.0	6.8	4.8	4.0	10	6.8	27	45	386	102	*9.0	5.2
13	4.0	6.2	4.8	4.0	11	6.8	13	64	367	108	d15	5.7
14	4.0	6.2	5.2	4.0	10	6.8	14	79	325	102	12	11
15	3.6	7.4	6.2	4.0	10	6.8	26	113	*289	89	6.8	12
16	3.6	7.4	5.7	4.0	10	6.8	21	141	257	99	4.0	15
17	2.9	6.8	4.8	4.0	10	7.4	38	180	218	97	5.7	16
18	2.9	6.8	6.2	4.0	6.8	7.4	45	215	192	105	8.2	12
19	2.9	6.8	6.8	4.0	6.2	7.4	40	203	212	113	12	13
20	3.2	6.8	6.8	4.0	6.8	7.4	86	273	227	99	10	13
21	2.9	6.8	6.8	4.4	6.8	7.4	110	251	*245	76	26	26
22	3.2	5.7	10	5.2	7.4	7.4	122	236	248	81	*11	14
23	3.2	5.7	86	5.2	6.8	7.4	113	215	*239	71	6.8	13
24	3.2	4.8	59	5.7	6.8	7.4	84	175	276	59	5.7	12
25	3.2	5.2	25	5.7	5.7	6.8	84	161	236	52	5.7	12
26	3.2	6.2	14	5.7	5.7	6.2	71	*133	206	45	4.4	11
27	3.2	5.7	13	6.2	7.4	6.8	76	*116	169	41	3.6	7.4
28	3.2	5.7	a12	6.2	8.2	5.7	69	116	152	29	4.4	8.2
29	3.6	5.7	a11	7.4	----------	5.7	89	141	*152	29	4.0	10
30	5.2	5.7	a10	25	----------	6.2	124	183	152	43	3.2	6.8
31	4.4	----------	a 9	26	----------	a6.2	----------	d221	----------	38	3.2	----------
Total	113.6	166.7	372.6	207.2	249.0	209.3	1,431	4,335	7,752	3,205	313.9	572.3
Mean	3.66	5.56	12.0	6.68	8.89	6.75	47.7	140	258	103	10.1	19.1
Ac-ft	225	331	739	411	494	415	2,840	8,600	15,380	6,360	623	1,140

Calendar year 1964 : Max 399 Min 2.9 Mean 43.4 Ac-ft 31,480
Water year 1964-65 : Max 386 Min 2.9 Mean 51.9 Ac-ft 37,560

* Discharge measurement made on this day.
a No gage-height record; discharge estimated.
d Doubtful gage-height record; discharge estimated.

Table 34.--1685 D. Salt Lake City conduit from Big Cottonwood Creek treatment plant, near Salt Lake City

Location.--In SW¼NE¼ sec. 25, T. 2 S., R. 1 E., at Big Cottonwood Creek water treatment plant at mouth of canyon, and 12 miles southeast of Salt Lake City.

Records available.--October 1963 to September 1965. Records for previous years in the files of the Salt Lake City Water Department.

Gage.--Five-foot Parshall flume.

Extremes.--1963-65: Maximum daily discharge, 61 cfs several days April-July 1965; minimum daily, 4 cfs Feb. 5, 1964.

Remarks.--A small amount of wash water (average about 0.3 cfs) from the conduit was returned to the creek; the remainder was delivered to the Salt Lake City water system. (See fig. 4.)

Cooperation.--Record of discharges, 8 a.m. to 8 a.m., furnished by Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22	24	27	33	32	29	40	59	57	60	42	23
2	22	26	28	31	36	28	29	53	57	61	54	26
3	23	24	27	32	27	28	35	61	60	56	52	27
4	23	24	25	30	29	27	37	57	56	57	55	25
5	22	24	22	31	33	28	36	32	57	60	60	28
6	25	23	22	30	33	26	34	35	58	60	54	22
7	26	23	23	30	34	28	35	38	58	59	52	41
8	26	24	23	30	34	26	34	27	54	59	52	33
9	25	25	23	28	30	28	34	31	51	58	47	53
10	26	25	22	27	28	29	31	37	42	59	33	31
11	27	25	25	26	32	28	29	41	49	59	41	44
12	25	26	21	26	29	29	32	55	40	59	39	38
13	25	25	22	25	31	28	32	43	30	60	34	32
14	24	25	23	25	30	28	33	50	42	59	32	42
15	25	26	24	25	28	28	34	39	47	61	34	40
16	24	26	22	26	30	29	35	51	45	45	38	38
17	24	25	19	26	28	28	41	58	49	57	39	37
18	24	24	23	27	28	28	44	46	56	33	40	34
19	25	24	22	26	29	28	42	48	58	36	26	32
20	24	24	23	27	30	28	50	30	58	48	37	28
21	24	25	23	27	31	28	50	53	59	59	29	24
22	24	22	24	26	30	28	51	56	59	60	22	25
23	25	20	31	27	29	27	30	49	58	61	37	24
24	24	21	20	28	29	26	41	38	34	59	37	24
25	24	24	27	27	30	26	40	37	43	37	37	26
26	23	26	28	26	29	26	36	37	36	60	38	24
27	23	24	29	28	31	27	46	50	37	52	30	23
28	23	24	30	28	28	25	58	58	45	53	30	25
29	24	24	31	32	----------	26	61	57	55	56	30	24
30	25	24	35	35	----------	28	59	55	55	55	37	33
31	25	----------	35	36	----------	32	----------	59	----------	45	28	----------
Total	751	726	779	881	848	858	1,189	1,440	1,505	1,703	1,216	926
Mean	24.2	24.2	25.1	28.4	30.3	27.7	39.6	46.5	50.2	54.9	39.2	30.9
Ac-ft	1,490	1,440	1,550	1,750	1,680	1,700	2,360	2,860	2,990	3,380	2,410	1,840

Calendar year 1964 : Max 59 Min 4 Mean 28.0 Ac-ft 20,350
Water year 1964-65: Max 61 Min 19 Mean 35.1 Ac-ft 25,450

Table 35.--1685 E-O, 1688 A. Diversions from Big Cottonwood Creek between Big Cottonwood Creek flume and gaging station at Cottonwood Lane

Locations.--Brown-Sanford Ditch (1685 E) diverts from the right bank in SW¼NE¼ sec. 25, T. 2 S., R. 1 E. Upper Canal (1685 F) diverts from the right bank and Newman Ditch (1685 G) diverts from the left bank in SE¼NW¼ sec. 23, T. 2 S., R. 1 E. Tanner (1685 H) and Bagley-Knudson (1685 I) Ditches divert from the left bank and Park Box Ditch (1685 J) diverts from the right bank in NW¼NW¼ sec. 23, T. 2 S., R. 1 E. Severson Ditch (1685 K) diverts from the left bank in SW¼SW¼ sec. 14, T. 2 S., R. 1 E. Bagley Ditch (1685 L) diverts from the left bank in NW¼SW¼ sec. 14, T. 2 S., R. 1 E. Green (1685 M), Wallace (1685 N), and Walker (1685 O) Ditches divert from the left bank in SW¼NE¼ sec. 15, T. 2 S., R. 1 E. Farr and Harper Ditch (1688 A) diverts from the right bank in the SE¼NE¼ sec. 15, T. 2 S., R. 1 E.

Records available.--April 1964 to September 1965. Records of individual diversions for previous years in the files of the Big Cottonwood Creek Water Commissioner.

Extremes.--1964-65: Maximum daily discharge, 69 cfs July 7, 1965; no flow during winter months.

Remarks.--The record herein is the combined discharge of ten of the diversions described above. The small discharge of the other two diversions (Park Box and Wallace Ditches) is insignificant. From July 27 to August 31 part of the water diverted was supplied by pumping from East Jordan Canal. (See table 20.)

The gage on Big Cottonwood Creek at Cottonwood Lane was moved in August 1964 from a site above Farr and Harper Ditch to a site below it. (See fig. 4 and table 36.) Records for 1964, published in Utah Basic-Data Release No. 11, will be comparable to those herein if diversions in Farr and Harper Ditch are added to the 1964 record 1685 E-O (p. 26) and subtracted from records 1688 (p. 27) and 1688 A-D (p. 28). Monthly discharge, in acre-feet, of Farr and Harper Ditch during 1964 was as follows: May, 21; June, 28: July, 64; August, 85; September, 65.

Cooperation.--Records of individual diversions furnished by the Big Cottonwood Creek Water Commissioner.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	23						0	36	57	49	25	35
2	27						7	28	54	62	30	36
3	26						5	29	51	62	35	38
4	26						5	33	49	59	35	40
5	25						7	32	54	65	27	23
6	22						0	31	60	67	29	4
7	22						1	26	60	69	32	5
8	21						1	21	55	67	28	3
9	19						1	20	54	61	32	6
10	18						1	20	54	64	42	17
11	20						4	23	56	66	44	22
12	20						2	22	56	67	34	21
13	20						2	30	43	67	42	26
14	19						1	31	50	65	35	31
15	12						1	23	51	62	35	30
16	0						1	27	55	64	32	32
17	0						3	33	45	63	30	26
18	0						2	49	41	67	31	25
19	0						10	48	60	42	37	29
20	0						18	43	65	44	40	30
21	0						18	37	64	37	35	32
22	0						23	35	63	38	23	35
23	0						12	37	58	40	23	33
24	0						5	38	57	35	26	31
25	0						5	30	50	46	23	32
26	0						6	32	49	43	32	33
27	0						11	33	45	33	31	33
28	0						17	33	45	41	31	32
29	0				---		31	43	47	38	30	29
30	0				---		33	52	52	39	31	24
31	0	---			---		---	58	---	31	31	---
Total	320	0	0	0	0	0	233	1,033	1,600	1,653	991	793
Mean	10.3	0	0	0	0	0	7.8	33.3	53.3	53.3	32.0	26.4
Ac-ft	635	0	0	0	0	0	462	2,050	3,170	3,280	1,970	1,570

Calendar year 1964 : Max 68 Min 0 Mean 17.7 Ac-ft 12,840
Water year 1964-65 : Max 69 Min 0 Mean 18.1 Ac-ft 13,140

Note.--Discharge for the 1964 calendar year is based on the assumption of no flow Jan. 1 to Apr. 15 and includes discharge of Farr and Harper Ditch.

Table 36.--1688. Big Cottonwood Creek at Cottonwood Lane, near Salt Lake City

Location.--Lat 40°39'22", long 111°49'24", in SW¼SE¼ sec. 10, T. 2 S., R. 1 E., at Cottonwood Lane, and about 8 miles southeast of Salt Lake City.

Drainage area.--58.2 sq mi.

Records available.--April to July 1964, October 1964 to September 1965.

Gage.--Water-stage recorder. Altitude of the gage is 4,510 ft (from topographic map). Prior to August 1964, a water-stage recorder at a site half a mile upstream at different datum.

Extremes.--1964-65: Maximum daily discharge, 351 cfs June 13, 1965; no flow on many days.

Remarks.--Records fair. Many diversions above the station including Farr and Harper Ditch, which is below the site used prior to August 1964. (See fig. 4 and table 35.)

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.3	0.2	1.0	0.6	10	0.2	0.1	89	167	124	16	4.1
2	.7	.2	.8	.1	6.2	.1	2.4	114	180	112	8.7	3.3
3	.5	.2	*.9	.1	5.1	b .2	3.7	105	169	104	5.1	2.0
4	.2	.3	1.8	.1	5.8	b .2	0	91	*178	110	*5.5	1.4
5	.2	.2	.4	.3	2.8	0	0	94	201	103	3.3	36
6	.2	.7	2.0	.2	4.3	0	3.4	*83	211	85	2.2	145
7	.3	1.4	.1	.3	1.8	0	*4.6	63	256	82	1.6	101
8	.5	.8	.4	.3	.5	0	5.5	58	285	*80	1.3	41
9	.7	1.2	.9	.2	2.4	0	6.2	49	*252	70	1.0	29
10	.7	1.9	.3	0	b 2.0	0	5.5	38	285	58	1.6	5.5
11	.7	2.2	.5	.1	.3	0	4.6	26	294	51	1.6	7.1
12	.5	2.0	.3	.3	.3	0	5.5	24	311	45	.7	1.6
13	.6	2.2	0	.1	.3	0	3.0	27	351	34	*1.8	1.0
14	.5	2.0	0	.1	.2	0	2.4	33	310	26	2.0	2.4
15	.5	1.2	.3	.2	.2	0	1.2	64	*273	21	2.5	2.2
16	.5	1.2	.3	.1	1.3	0	.1	91	239	19	1.6	4.3
17	.5	1.3	b.3	0	.1	.2	1.7	103	201	24	1.3	10
18	.5	1.0	b.3	.1	.1	.3	1.9	121	172	26	2.5	12
19	.4	.9	b.2	.2	.4	.2	2.0	148	151	74	9.2	12
20	.3	.9	0	.3	.1	.1	13	197	153	61	11	8.7
21	.3	.8	0	.3	.1	0	37	197	*170	30	22	12
22	.4	.1	.2	.2	.1	0	55	175	182	16	32	12
23	.5	0	38	.4	.2	0	*89	163	178	*9.6	13	12
24	.7	.3	54	.3	.2	0	75	*167	212	8.3	6.2	12
25	.5	.2	36	.2	.1	0	70	144	214	8.3	3.0	8.7
26	.3	.2	14	.2	0	0	66	125	184	8.0	1.9	7.3
27	.3	.2	12	.6	.1	.1	55	96	156	4.3	1.4	8.3
28	.3	0	8.8	1.0	.2	0	36	74	132	4.1	1.2	8.0
29	.3	0	5.8	.7	----------	0	27	89	115	4.1	1.9	12
30	.3	.2	3.0	7.2	----------	0	49	108	119	11	3.0	9.2
31	.2	----------	.8	15	----------	0	----------	141	----------	16	2.5	----------
Total	13.4	24.0	183.4	29.8	45.2	1.6	625.8	3,097	6,301	1,428.7	168.6	531.1
Mean	0.43	0.80	5.92	0.96	1.61	0.05	20.9	99.9	210	46.1	5.44	17.7
Ac-ft	27	48	364	59	90	3	1,240	6,140	12,500	2,830	334	1,050

Calendar year :	Max	Min	Mean	Ac-ft
Water year 1964-65 :	Max 351	Min 0	Mean 34.1	Ac-ft 24,680

* Discharge measurement made on this day.
b Stage-discharge relation affected by ice.

Table 37.--1688 B-D. Diversions from Big Cottonwood Creek below gaging station at Cottonwood Lane

Locations.--Lower Canal (1688 B) diverts from the right bank in the NE¼SW¼ sec. 10, T. 2 S., R. 1 E. Big Canal (1688 C) diverts from the right bank in the SE¼NE¼ sec. 9, T. 2 S., R. 1 E. Hill Ditch (1688 D) diverts from the right bank in NW¼NW¼ sec. 9, T. 2 S., R. 1 E.

Records available.--April 1964 to September 1965. Records of individual diversions for previous years in the files of the Big Cottonwood Creek Water Commissioner.

Extremes.--1964-65: Maximum daily discharge, 34 cfs July 15, 24, 1964 (excluding flow in Farr and Harper Ditch); no flow during winter months.

Remarks.--The record herein is the combined discharge of the three diversions described above. From July 27 to Aug. 31 part of the water diverted was supplied by pumping from East Jordan Canal. (See fig. 4 and table 20.) The 1964 record for this station (in Basic-Data Release No. 11) included the diversion in Farr and Harper Ditch. (See tables 35 and 36.)

Cooperation.--Records of individual diversions furnished by the Big Cottonwood Creek Water Commissioner.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								0	21	21	16	17
2								0	23	23	15	17
3								0	24	26	14	17
4								0	24	22	15	17
5								0	26	24	14	8
6								0	16	23	14	0
7								0	6	21	14	0
8								0	26	19	17	0
9								0	24	22	21	10
10								0	25	22	21	9
11								0	25	22	22	8
12								0	24	23	21	10
13								0	21	24	23	12
14								0	19	24	22	13
15								0	19	21	19	15
16								0	25	26	16	16
17								14	25	27	16	17
18								14	22	25	18	15
19								16	24	24	18	14
20								16	25	24	18	14
21								16	27	21	17	16
22								22	29	18	15	15
23								22	29	23	11	15
24								23	27	23	12	15
25								14	23	23	16	15
26								12	8	23	17	14
27								12	8	22	16	14
28								12	5	21	16	15
29								20	13	16	17	10
30					----------			22	15	18	18	10
31		----------			----------		----------	23	----------	15	17	----------
Total	0	0	0	0	0	0	0	258	628	686	526	368
Mean	0	0	0	0	0	0	0	8.3	20.9	22.1	17.0	12.3
Ac-ft	0	0	0	0	0	0	0	512	1,250	1,360	1,040	730

Calendar year 1964 : Max 34 Min 0 Mean 7.8 Ac-ft 5,680
Water year 1964-65: Max 29 Min 0 Mean 6.8 Ac-ft 4,890

Note.--Discharge for the 1964 calendar year is based on the assumption of no flow Jan. 1 to Mar. 31 and excludes discharge of Farr and Harper Ditch.

Table 38.--1698. Mill Creek above Elbow Fork, near Salt Lake City

Location.--Lat 40°42'23", long 111°41'22", in SW¼NE¼ sec. 26, T. 1 S., R. 2 E., on left bank 100 ft upstream from Elbow Fork, 1.8 miles upstream from Mill Creek guard station, and 12 miles southeast of Salt Lake City.

Drainage area.--7.7 sq mi.

Records available.--May 1963 to September 1965. Prior to April 21, 1964, infrequent staff gage readings only.

Gage.--Water-stage recorder. Altitude of the gage is 6,630 ft (from topographic map).

Extremes.--1963-65: Maximum daily discharge, 42 cfs June 9, 1965; minimum daily, not determined.

Remarks.--Records good except those for periods of no gage-height record, which are fair. No diversions above station.

Cooperation.--Gage-height record furnished by the Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1964 to September 65

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.5	4.7	a5.0				4.9	12	31	18	11	8.1
2	5.5	4.8	a4.5				5.1	a14	31	17	11	8.5
3	5.3	4.7	a4.5	a4.0			4.9	a17	30	17	10	8.1
4	5.3						4.9	a18	30	16	10	8.1
5	5.3				a5.0		4.9	a17	33	16	10	8.8
6	5.3			*4.2			4.8	a15	a35	16	10	12
7	5.1						4.9	a14	a37	16	10	10
8	5.1	a4.5					4.9	a13	a40	15	10	8.8
9	5.1						4.9	a12	42	15	9.6	8.8
10	5.1						4.9	11	42	13	9.6	8.5
11	5.1			a4.0		*5.0	4.9	11	a42	13	9.2	8.1
12	*5.1						5.1	12	a42	13	9.2	8.1
13	4.7						5.1	12	a40	13	9.2	8.1
14	4.8						5.1	13	a40	13	9.2	8.1
15	4.8	a4.0					5.1	15	39	13	8.8	8.1
16	4.8				a4.5		5.3	16	36	13	9.2	8.8
17	4.8	a4.5	a4.0				6.1	17	*34	13	8.8	8.8
18	4.8	a4.5					6.1	18	32	12	9.2	8.5
19	4.8						6.3	19	30	11	9.6	8.5
20	4.7						7.8	*24	28	11	9.2	8.1
21	4.7						8.8	25	25	11	9.6	8.1
22	4.7			a4.5		*4.8	10	24	25	11	8.8	8.1
23	4.7					4.7	a10	26	24	11	8.5	8.1
24	4.8	a5.0				4.7	a10	27	24	10	8.1	7.8
25	4.7				a5.0	4.6	a10	24	24	11	8.1	7.8
26	4.8					*4.6	10	22	22	10	8.1	7.8
27	4.7					4.6	10	21	20	*10	8.1	7.5
28	4.6					4.6	11	21	19	11	8.1	7.8
29	4.6				----------	4.6	9.6	23	18	11	8.1	7.8
30	4.7			a5.0	----------	4.7	11	24	*18	11	8.1	7.8
31	4.7	----------			----------	4.8	----------	28	----------	12	8.1	----------
Total	152.7	140.2	126.0	133.7	133.5	151.7	206.4	565	933	403	284.5	251.5
Mean	4.93	4.67	4.06	4.31	4.77	4.89	6.88	18.2	31.1	13.0	9.18	8.38
Ac-ft	303	278	250	265	265	301	409	1,120	1,850	799	564	499

Calendar year 1964: Max 40 Min - Mean 6.88 Ac-ft 4,990
Water year 1964-65 Max 42 Min - Mean 9.54 Ac-ft 6,900

* Discharge measurement made on this day.
a No gage-height record; discharge estimated.

Table 39.--1700. Mill Creek near Salt Lake City

Location.--Lat 40°41'20", long 111°46'55", in NW¼SE¼ sec. 36, T. 1 S., R. 1 E., 1,000 ft upstream from bridge at mouth of canyon, 0.7 mile east of Wasatch Blvd., and 7 miles southeast of Salt Lake City.

Drainage area.--21.7 sq mi.

Records available.--October 1898 to September 1965. Monthly discharge only for October 1898 to September 1960 published in WSP 1314 and 1734. October 1960 to September 1963 in the files of the Salt Lake City Water Department.

Extremes.--1898-1910, 1912-19, 1920-22, 1923-60, 1963-65: Maximum daily discharge, 152 cfs May 20, 1949; minimum not determined but about 1 cfs or less.

Remarks. No regulation. Record herein is the combined discharge of Mill Creek and pipelines from Boundary Springs. (See tables 40,41.)

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.6	5.8	9.0	9.5	9.5	8.8	9.8	24	48	27	16	12
2	8.6	7.6	8.3	7.2	8.9	8.0	11	27	48	27	16	12
3	8.3	7.4	8.0	9.2	9.5	7.9	11	31	47	25	15	12
4	8.3	7.6	7.9	9.2	9.5	9.7	11	36	48	24	15	12
5	8.3	7.3	7.2	8.9	9.5	10	11	36	50	23	14	12
6	8.2	6.9	5.8	9.2	9.7	10	10	33	50	23	14	17
7	8.5	7.1	4.8	8.9	9.5	10	11	31	54	23	14	14
8	8.2	6.9	4.7	7.7	8.3	10	11	29	54	23	14	13
9	8.0	6.9	6.5	7.1	9.6	9.7	11	28	54	22	14	12
10	8.0	6.9	8.4	8.8	9.3	9.7	11	26	54	21	14	12
11	8.0	7.1	8.7	9.0	5.7	9.7	11	25	56	21	14	12
12	8.0	7.1	7.9	8.8	5.9	9.7	11	25	55	20	14	12
13	8.0	7.3	4.7	8.5	6.4	9.7	11	25	56	20	14	12
14	7.6	7.1	4.5	8.5	8.5	9.5	11	28	54	18	13	12
15	7.2	5.5	7.7	8.5	7.9	9.5	11	30	51	18	13	12
16	7.2	5.5	7.9	8.3	6.5	9.7	11	30	51	18	13	12
17	7.5	6.2	5.0	8.3	7.7	9.7	12	35	46	20	13	12
18	7.5	7.1	5.1	8.3	7.2	8.2	12	40	44	20	14	12
19	7.7	7.8	5.4	8.5	7.2	8.0	13	41	43	20	14	12
20	7.7	7.8	7.5	8.5	7.0	9.3	16	43	43	18	14	12
21	7.7	7.8	7.5	8.8	7.0	7.5	18	46	43	17	16	12
22	7.5	7.5	7.8	8.4	7.0	10	21	47	43	17	15	12
23	7.5	7.5	13	8.7	9.7	9.8	25	48	40	17	13	12
24	7.5	7.5	14	8.2	9.5	9.8	23	48	41	16	13	11
25	7.7	7.5	12	6.5	9.7	9.0	23	44	38	17	12	11
26	7.7	7.8	10	6.1	9.7	9.8	23	41	34	17	12	11
27	7.7	7.5	10	7.4	9.7	9.8	23	39	33	16	12	10
28	7.5	7.5	9.2	8.9	10	9.6	24	38	30	16	12	11
29	7.5	7.5	7.7	8.9		9.3	25	38	28	15	12	11
30	8.2	7.5	7.4	10	----------	8.8	28	41	28	16	12	11
31	7.3	----------	9.2	10	----------	9.0	----------	44	----------	18	12	----------
Total	243.2	214.5	242.8	262.8	235.6	289.2	459.8	1,097	1,364	613	423	360
Mean	7.85	7.15	7.83	8.48	8.41	9.33	15.3	35.4	45.5	19.8	13.6	12.0
Ac-ft	482	425	482	521	467	574	912	2,180	2,710	1,220	839	714

Calendar year 1964: Max 50 Min 4.1 Mean 12.6 Ac-ft 9,170
Water year 1964-65: Max 56 Min 4.5 Mean 15.9 Ac-ft 11,530

Table 40.--1700 A. Boundary Springs near Salt Lake City

Location.--In SE¼NE¼ sec. 36, T. 1 S., R. 1 E. (corrected), at Forest Boundary, about 1,500 ft upstream from Mill Creek gage (1700 B), and about 7 miles southeast of Salt Lake City.

Records available.--October 1963 to September 1965. Records for previous years in the files of the Salt Lake City Water Department.

Gage.--Propeller-type totalizing meters.

Extremes.--1963-65: Maximum daily discharge, 2.7 cfs Aug. 2-14, 1964 and June 21, 1965; minimum daily, 1.2 cfs Mar. 27-31, 1964.

Remarks.--The record herein is the combined discharge of Upper and Lower Boundary Springs diverted into pipelines for domestic use. At times part of the flow from the springs reaches Mill Creek without diversion.

Cooperation.--Record furnished by the Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.5	2.3	2.2	2.1	2.1	2.1	2.2	2.0	2.4	2.0	2.4	2.3
2	2.5	2.3	2.2	2.1	2.1	2.1	2.2	2.0	2.4	2.0	2.4	2.3
3	2.5	2.3	2.2	2.1	2.1	2.1	2.3	2.0	2.4	2.0	2.4	2.3
4	2.5	2.3	2.1	2.1	2.1	2.1	2.3	1.9	2.4	2.0	2.4	2.3
5	2.5	2.2	2.1	2.1	2.1	2.1	2.3	1.9	2.4	2.0	2.4	2.3
6	2.4	2.2	2.1	2.1	2.1	2.1	2.3	1.9	2.4	2.0	2.5	2.3
7	2.4	2.2	2.1	2.1	2.1	2.1	2.2	1.9	2.4	2.2	2.5	2.3
8	2.4	2.2	2.1	2.1	2.2	2.1	2.2	1.9	2.4	2.2	2.5	2.3
9	2.4	2.2	2.1	2.2	2.2	2.1	2.1	1.9	2.4	2.3	2.5	2.3
10	2.4	2.2	2.1	2.2	2.2	2.1	2.1	1.9	2.4	2.3	2.5	2.2
11	2.4	2.2	2.1	2.2	2.2	2.1	2.0	2.0	2.4	2.4	2.5	2.2
12	2.4	2.2	2.1	2.2	2.2	2.1	2.0	2.0	2.4	2.4	2.5	2.2
13	2.4	2.2	2.1	2.2	2.2	2.1	2.1	2.0	2.4	2.3	2.5	2.2
14	2.3	2.2	2.1	2.2	2.2	2.1	2.1	2.0	2.3	2.3	2.4	2.2
15	2.3	2.2	2.1	2.2	2.1	2.1	2.1	2.1	2.3	2.3	2.4	2.2
16	2.3	2.2	2.1	2.2	2.1	2.1	2.2	2.2	2.4	2.3	2.4	2.2
17	2.4	2.2	2.1	2.2	2.1	2.1	2.2	2.2	2.5	2.3	2.3	2.2
18	2.4	2.2	2.2	2.2	2.1	2.1	2.2	2.1	2.5	2.3	2.3	2.2
19	2.4	2.2	2.2	2.2	2.1	2.2	2.2	2.1	2.6	2.3	2.3	2.2
20	2.4	2.2	2.2	2.2	2.1	2.2	2.2	2.1	2.6	2.3	2.3	2.2
21	2.4	2.2	2.2	2.2	2.1	2.2	2.2	2.0	2.7	2.3	2.3	2.2
22	2.4	2.2	2.2	2.1	2.1	2.2	2.2	2.0	2.6	2.3	2.3	2.2
23	2.4	2.2	2.2	2.1	2.1	2.2	2.2	1.9	2.5	2.3	2.3	2.2
24	2.4	2.2	2.2	2.1	2.1	2.2	2.2	1.9	2.4	2.3	2.3	2.2
25	2.4	2.2	2.1	2.1	2.1	2.2	2.2	1.9	2.3	2.3	2.3	2.2
26	2.4	2.2	2.1	2.1	2.1	2.2	2.2	2.0	2.2	2.3	2.3	2.2
27	2.4	2.2	2.1	2.1	2.1	2.2	2.2	2.0	2.1	2.3	2.3	2.2
28	2.4	2.2	2.1	2.1	2.1	2.2	2.2	2.2	2.0	2.3	2.3	2.2
29	2.4	2.2	2.1	2.1	---------	2.2	2.1	2.3	2.0	2.4	2.3	2.2
30	2.4	2.2	2.1	2.1	---------	2.2	2.1	2.3	2.0	2.4	2.3	2.2
31	2.4	---------	2.1	2.1	---------	2.2	---------	2.4	---------	2.4	2.3	---------
Total	74.6	66.4	66.1	66.4	59.5	66.4	65.3	63.0	71.2	69.8	73.7	66.9
Mean	2.41	2.21	2.13	2.14	2.12	2.14	2.18	2.03	2.37	2.25	2.38	2.23
Ac-ft	148	132	131	132	118	132	130	125	141	138	146	133

Calendar year 1964 : Max 2.7 Min 1.2 Mean 2.12 Ac-ft 1,540
Water year 1964-65: Max 2.7 Min 1.9 Mean 2.22 Ac-ft 1,610

Table 41.--1700 B. Mill Creek (channel only) near Salt Lake City

Location.--Lat 40°41'20", long 111°46'55", in NW¼SE¼ sec. 36, T. 1 S., R. 1 E., 1,000 feet upstream from bridge at mouth of canyon, 0.7 mile east of Wasatch Boulevard, and 7 miles southeast of Salt Lake City.

Records available.--October 1963 to September 1965. Records for previous years in the files of the Salt Lake City Water Department.

Gage.--Water-stage recorder and rating flume. Altitude of the gage is 5,050 feet (from topographic map).

Extremes.--1963-65: Maximum daily discharge, 54 cfs June 11, 13, 1965; minimum daily, 1.9 cfs Nov. 29-Dec. 1, 1964.

Remarks.--Records good. No regulation. Water is diverted from Boundary Springs, about 1,500 feet upstream, into pipelines that bypass the gage.

Cooperation.--Gage-height record furnished by the Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.1	3.5	6.8	7.4	7.4	6.7	7.6	22	46	25	14	9.6
2	6.1	5.3	6.1	5.1	6.8	5.9	8.7	25	46	25	14	9.6
3	5.8	5.1	5.8	7.1	7.4	5.8	a 8.4	29	*45	23	13	9.6
4	5.8	5.3	5.8	7.1	7.4	7.6	a 8.4	34	46	22	13	9.3
5	5.8	5.1	5.1	6.8	7.4	7.9	a 8.4	34	48	21	12	10
6	5.8	4.7	3.7	7.1	7.6	7.9	8.1	31	48	21	12	15
7	6.1	4.9	2.7	6.8	7.4	7.9	8.7	29	52	21	12	12
8	5.8	4.7	2.6	5.6	6.1	7.9	8.7	27	52	21	12	11
9	5.6	4.7	4.4	4.9	7.4	7.6	8.7	26	52	20	12	10
10	5.6	4.7	6.3	6.6	7.1	7.6	9.0	24	52	19	12	9.9
11	5.6	4.9	6.6	6.8	3.5	*7.6	9.3	23	54	19	11	9.9
12	*5.6	4.9	5.8	6.6	3.7	7.6	9.3	23	53	18	11	9.3
13	5.6	5.1	2.6	6.3	4.2	7.6	8.7	23	54	18	11	9.3
14	5.3	4.9	2.4	6.3	6.3	7.4	8.7	26	52	16	11	9.3
15	4.9	3.3	5.6	6.3	5.8	7.4	8.7	28	49	16	11	9.3
16	4.9	3.3	5.8	6.1	4.4	7.6	9.0	28	*49	16	11	9.9
17	5.1	4.0	2.9	6.1	5.6	7.6	10	33	44	18	11	9.9
18	5.1	4.9	2.9	6.1	5.1	6.1	10	38	42	18	12	9.6
19	5.3	5.6	3.2	6.3	5.1	5.8	11	39	40	18	12	9.6
20	5.3	5.6	5.3	6.3	4.9	7.1	14	41	40	16	12	9.6
21	5.3	5.6	5.3	6.6	4.9	5.3	16	44	40	15	14	9.6
22	5.1	5.3	5.6	6.3	4.9	7.9	19	a 45	40	15	13	9.3
23	5.1	5.3	11	6.6	7.6	7.6	23	a 46	38	15	11	9.3
24	5.1	5.3	12	6.1	7.4	7.6	21	46	39	14	11	9.0
25	5.3	5.3	9.9	4.4	7.6	6.8	21	42	36	15	10	8.7
26	5.3	5.6	8.1	4.0	7.6	*7.6	21	39	32	15	10	8.4
27	5.3	5.3	7.9	5.3	7.6	7.6	21	37	31	*14	10	8.1
28	5.1	5.3	7.1	6.8	7.9	7.4	22	36	28	14	9.9	8.4
29	5.1	5.3	5.6	6.8	----------	7.1	23	36	26	13	9.9	8.4
30	5.8	5.3	5.3	8.1	----------	6.6	26	39	* 26	14	9.9	8.4
31	4.9	----------	7.1	8.1	----------	6.8	----------	42	----------	16	9.9	----------
Total	168.6	148.1	177.3	196.8	176.1	222.9	396.4	1,035	1,300	551	357.6	[illegible]
Mean	5.44	4.94	5.72	6.35	6.29	7.19	13.2	33.4	43.3	17.8	11.5	[illegible]
Ac-ft	334	294	352	390	349	442	786	2,050	2,580	1,090	709	[illegible]

Calendar year 1964: Max 48 Min 2.2 Mean 10.5 Ac-ft 7,620
Water year 1964-65: Max 54 Min 2.4 Mean 13.8 Ac-ft 9,950

* Discharge measurement made on this day.
a No gage-height record; discharge estimated.

Table 42.--1700 C-M. Diversions from Mill Creek between gaging stations 1700 B and 1702

Locations.--Chamberlain Ditch (1700 C) diverts from the left bank in the NW¼SE¼ sec. 36, T. 1 S., R. 1 E. Stillman-Hussy Ditch (1700 D) diverts from the left bank and Osguthorpe (1700 E) Ditch diverts from the right bank in the NE¼SW¼ sec. 36, T. 1 S., R. 1 E. Stillman-Russell (1700 F) and James Russell (1700 G) Ditches divert from the left bank in SW¼NW¼ sec. 36, T. 1 S., R. 1 E. Tripp Ditch (1700 H) diverts from the right bank in NE¼NE¼ sec. 35, T. 1 S., R. 1 E. John and Franklin Neff Ditch (1700 I) diverts from the left bank in NE¼NW¼ sec. 35, T. 1 S., R. 1 E. Amos Neff Ditch (1700 J) diverts from the left bank and Brigham Young Ditch (1700 K) diverts from the right bank in NW¼NW¼ sec. 35, T. 1 S., R. 1 E. Keller Ditch (1700 L) diverts from the left bank in NW¼NW¼ sec. 34, T. 1 S., R. 1 E. White Ditch (1700 M) diverts from the right bank in NE¼NW¼ sec. 34, T. 1 S., R. 1 E.

Records available.--October 1963 to September 1965.

Extremes.--1963-65: Maximum daily discharge, 14 cfs July 3, 1965; no flow during several months of each year.

Remarks.--The record herein, computed from the Mill Creek Water Commissioner's records, is the combined discharge of the 11 diversions described above. The water is used for irrigation and domestic supply.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5						2	2	11	12	9	8
2	6						2	3	10	12	8	8
3	5						2	3	11	14	8	8
4	6						1	4	11	13	11	8
5	6						1	4	11	12	10	7
6	3						1	3	11	12	11	5
7	5						1	2	10	13	11	3
8	4						1	0	11	12	11	2
9	4						1	0	11	11	10	4
10	4						2	1	11	10	10	5
11	3						1	2	11	10	10	8
12	3						0	3	12	10	9	8
13	5						0	2	11	11	9	8
14	4						0	2	10	12	9	8
15	0						0	3	10	11	9	7
16	0						1	4	10	12	10	8
17	0						1	6	10	13	10	6
18	0						1	5	10	11	10	4
19	0						2	6	10	9	9	4
20	0						1	7	10	10	9	3
21	0						1	7	10	12	13	3
22	0						1	7	9	12	9	3
23	0						1	6	9	10	5	4
24	0						1	5	9	10	9	6
25	0						1	5	9	11	9	6
26	0						1	4	9	11	9	5
27	0						0	5	9	11	10	5
28	0						0	7	9	11	10	6
29	0						1	10	10	12	9	4
30	0				----------		1	9	11	11	8	3
31	0	----------			----------		----------	7	----------	10	7	----------
Total	63	0	0	0	0	0	29	134	306	351	291	167
Mean	2.0	0	0	0	0	0	1.0	4.3	10.2	11.3	9.4	5.6
Ac-ft	125	0	0	0	0	0	58	266	607	696	577	331

Calendar year 1964: Max 13 Min 0 Mean 2.9 Ac-ft 2,100
Water year 1964-65: Max 14 Min 0 Mean 3.7 Ac-ft 2,660

Table 43.--1702. Mill Creek at 2200 East, near Salt Lake City

Location.--Lat 40°41'44", long 111°49'40", in NE¼NW¼ sec. 34, T. 1 S., R. 1 E., about 2.5 miles downstream from mouth of canyon and 5.7 miles southeast of Salt Lake City.

Drainage area.--22.6 sq mi.

Records available.--October 1963 to September 1965.

Gage.--Water-stage recorder.

Extremes.--1963-65: Maximum daily discharge, 51 cfs June 12, 1965; minimum daily, 0.2 cfs on several days in 1963.

Remarks.--Records good.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.8	0.8	b 2.0	3.1	4.2	b 4.9	a 6.0	24	32	17	10	1.5
2	1.2	1.8	b 2.3	b 2.4	3.7	b 5.1	a 6.0	24	34	14	8.5	1.3
3	1.0	1.9	2.6	b 2.7	5.1	b 3.9	a 6.0	25	32	14	5.3	1.6
4	1.0	1.8	2.8	2.8	4.3	4.9	a 6.0	26	35	13	3.2	1.6
5	.7	1.8	2.4	2.6	3.7	5.7	a 6.0	27	36	12	2.4	4.5
6	.4	1.4	1.6	2.9	3.9	5.3	5.5	27	37	12	2.3	15
7	.6	1.4	.7	2.8	3.5	4.6	6.1	27	38	11	2.1	12
8	.5	1.4	.5	b 2.0	3.0	4.6	6.3	25	43	12	2.1	10
9	.4	1.3	1.3	b 1.9	b 3.1	* 4.9	6.3	24	45	10	1.5	8.8
10	.5	1.4	2.6	2.5	b 2.6	5.1	7.9	23	46	9.1	1.5	5.6
11	.8	1.5	2.8	2.9	b 1.4	5.3	9.1	*22	50	8.2	1.5	3.1
12	.7	1.5	2.3	2.8	b 1.1	5.5	8.5	22	51	7.3	1.4	2.2
13	.7	2.0	b .8	2.1	b 1.9	5.3	7.9	22	51	6.1	2.5	1.8
14	.7	2.1	b .5	2.3	3.4	5.1	7.3	23	49	5.5	1.4	1.5
15	.7	1.3	2.0	2.2	b 3.2	5.1	7.3	24	48	4.6	1.5	1.5
16	.5	1.2	2.0	2.2	3.6	5.3	7.3	25	44	3.6	1.2	3.2
17	.8	1.4	b .9	2.2	4.6	5.7	8.5	28	*38	5.5	1.3	6.5
18	1.3	1.8	b 1.2	2.3	4.2	b 3.7	8.2	30	35	8.0	2.3	6.7
19	.7	2.5	b 1.7	2.6	3.9	b 3.9	10	31	32	8.8	2.8	7.3
20	.6	2.4	2.3	2.6	3.4	b 5.5	14	*35	30	5.7	2.5	6.7
21	1.0	2.2	1.5	2.8	3.4	7.9	b 18	34	30	5.5	9.7	7.6
22	.9	2.0	1.4	2.8	3.9	6.5	b 19	33	29	3.9	10	7.3
23	1.2	2.0	7.1	2.8	4.4	5.7	23	35	28	3.2	6.7	7.3
24	1.6	2.0	8.2	2.8	4.4	6.5	22	38	28	2.9	5.1	4.5
25	1.7	2.0	5.7	b 1.7	4.8	5.1	22	35	29	5.0	3.6	3.0
26	1.6	1.8	3.9	*1.6	4.6	6.7	21	33	28	* 4.8	1.5	2.8
27	1.5	1.5	3.9	2.4	4.9	6.7	21	30	26	4.2	1.3	2.1
28	1.4	1.5	3.2	4.2	b 4.8	a 6.3	21	28	23	3.0	1.3	3.5
29	1.4	1.4	b 2.3	5.1	----------	a 6.0	23	28	21	2.7	1.6	5.3
30	1.8	1.4	2.3	5.3	----------	a 6.0	25	28	*19	4.8	1.5	5.1
31	1.4	----------	2.9	4.4	----------	a 6.0	----------	29	----------	9.7	1.5	----------
Total	30.1	50.5	77.7	85.8	103.0	168.8	365.2	865	1067	237.1	101.1	150.9
Mean	0.97	1.68	2.51	2.77	3.68	5.44	12.2	27.9	35.6	7.65	3.26	5.03
Ac-ft	60	100	154	170	204	335	724	1720	2120	470	201	299

Calendar year 1964 : Max 36 Min 0.2 Mean 5.23 Ac-ft 3,790
Water year 1964-65 : Max 51 Min 0.4 Mean 9.05 Ac-ft 6,560

* Discharge measurement made on this day.
a No gage-height record; discharge estimated.
b Stage-discharge relation affected by backwater from ice or debris.

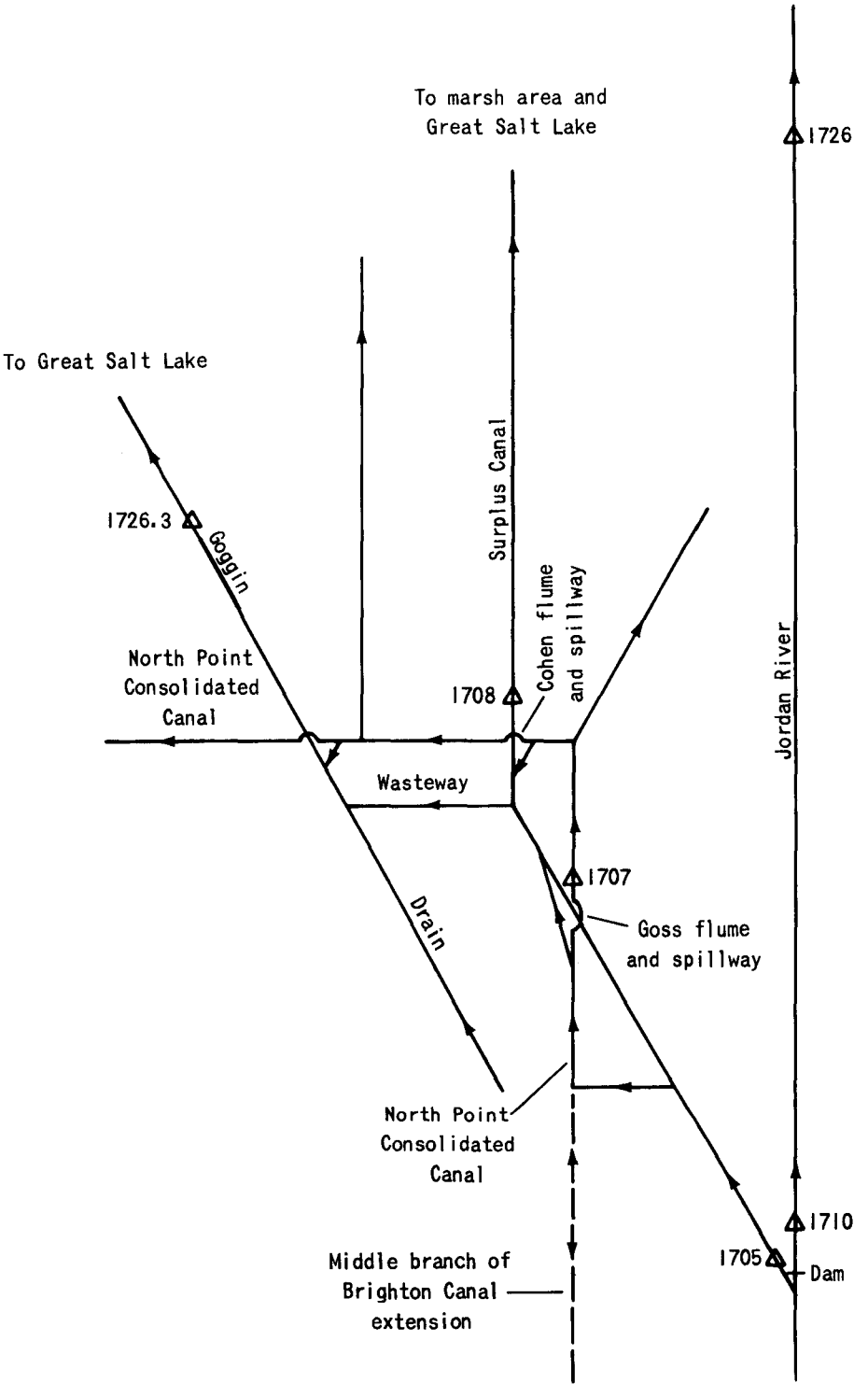


Figure 5.— Schematic diagram showing relation of flows in lower Jordan River basin.

Table 44.--1705. Surplus Canal at Salt Lake City

Location.--Lat 40°43'40", long 111°55'35", in SW¼SW¼ sec. 14, T. 1 S., R. 1 W., on right bank 400 ft downstream from diversion dam at head of canal, and about 0.1 mile downstream from highway bridge over Jordan River on 21st South Street; auxiliary gage at diversion dam.

Records available.--December 1942 to September 1965. December 1942 to September 1960 in the annual series of Water-Supply Papers of the U.S. Geological Survey, with monthly summaries in WSP 1314 and 1734. October 1960 to September 1965 in Surface Water Records of Utah, published annually.

Gage.--Water-stage recorder. Datum of gage is 4,219.02 ft above mean sea level, datum of 1929. Prior to Oct. 22, 1952, at site 50 ft upstream at present datum.

Average discharge.--22 years (1943-65), 179 cfs (129,600 acre-ft per year).

Extremes.--Maximum discharge during year, 1,010 cfs June 14; minimum, 76 cfs Apr. 4.
1942-65: Maximum discharge, 1,700 cfs June 7, 1952; maximum gage height, 8.4 ft May 7, 1952; no flow Jan. 21 to Feb. 28, 1963.

Remarks.--Records good. Flow is regulated at the diversion structure 400 ft above the station. (See fig. 5.) The canal was built to bypass the floodwater of the Jordan River around the Salt Lake City residential and industrial area. (See table 47 for records of combined flow of the Jordan River and the canal.) Several diversions for irrigation and waterfowl ponds are below the station.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	* 129	92	*170	150	*183	* 147	* 89	315	*394	403	360	*173
2	123	* 103	180	138	163	129	85	416	434	360	327	176
3	172	95	173	141	166	126	89	398	331	360	*287	194
4	142	97	190	138	166	129	85	303	303	364	264	190
5	132	97	187	141	166	126	105	351	385	377	219	230
6	136	89	150	141	176	126	105	394	499	303	166	888
7	136	89	123	138	173	129	110	319	509	215	135	686
8	148	89	103	132	163	121	110	323	633	234	123	403
9	155	99	100	135	170	121	110	335	*614	212	126	360
10	158	108	100	135	166	118	108	303	691	183	159	315
11	165	123	116	141	153	123	108	276	869	215	159	264
12	172	121	110	141	153	121	113	230	883	215	141	241
13	158	150	96	135	150	126	113	166	888	163	180	215
14	148	138	98	135	150	129	110	138	*931	159	219	197
15	* 139	129	*105	*129	*147	* 121	* 103	156	830	*159	204	*197
16	117	*129	105	123	138	100	103	180	715	176	*201	268
17	100	121	96	123	129	100	108	*201	576	219	187	319
18	95	121	98	126	123	96	116	219	470	276	234	287
19	106	118	100	123	129	93	116	264	411	452	339	249
20	109	118	100	123	138	96	132	407	381	438	372	234
21	103	116	100	126	150	98	234	667	447	372	595	226
22	100	113	100	123	153	98	299	725	499	280	773	222
23	106	110	218	129	132	100	* 360	696	447	219	319	208
24	95	110	381	147	129	113	351	595	523	208	222	204
25	95	108	339	153	138	91	319	585	624	245	212	208
26	97	110	276	138	135	96	315	434	653	272	197	180
27	87	110	284	138	144	98	311	268	648	245	176	144
28	87	110	295	163	166	103	284	234	518	190	170	190
29	89	116	201	222	---------	103	276	245	407	150	176	253
30	97	123	159	197	---------	96	* 291	291	*411	176	187	264
31	100	---------	*159	197	---------	91	---------	347	---------	351	166	---------
Total	3.796	3.352	5.012	4.421	4.249	3.464	5.158	10.781	16.924	8.191	7.595	8.185
Mean	122	112	162	143	152	112	172	348	564	264	245	273
Ac-ft	7.530	6.650	9.940	8.770	8.430	6.870	10.230	21.380	33.570	16.250	15.060	16.230

Calendar year 1964 : Max 1,070 Min 45 Mean 184 Ac-ft 133,800
Water year 1964-65 : Max 931 Min 85 Mean 222 Ac-ft 160,900

* Discharge measurement made on this day.

Table 45.--1707. North Point Consolidated Canal below Goss flume, at Salt Lake City

Location.--Lat 40°46'22", long 111°58'43", in SE¼SW¼ sec. 32, T. 1 N., R. 1 W., on right bank at downstream end of Goss flume over Surplus Canal, about 350 feet north of U.S. Highway 40, and 4.7 miles northwest of Salt Lake City.

Records available.--October 1963 to September 1965.

Gage.--Water-stage recorder.

Extremes.--1963-65: Maximum daily discharge, 75 cfs July 30, 1964; no flow for long periods.

Remarks.--Records fair, except those for periods of no gage-height record or of indefinite stage-discharge relation which are poor. This canal diverts from the Surplus Canal for irrigation and is connected with the Brighton Canal system, which diverts from the Jordan River. (See fig. 5 and table 20.)

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	38	c 50	39				0	3	62	66	63	0
2	38	c 50	17				11	*19	61	66	50	0
3	38	51	0				19	28	45	66	36	0
4	39	* 50	*0				19	30	7	67	37	0
5	38	50	0				19	33	0	66	*36	0
6	38	49	0				6	41	0	68	36	0
7	38	49	0				a 1	42	0	67	10	0
8	38	49	0				a 1	41	0	67	0	0
9	38	49	0				a 1	41	0	67	0	0
10	38	50	0				a 1	41	0	68	0	5
11	38	52	0				a 1	41	0	67	0	9
12	38	52	0				a 1	41	0	68	0	9
13	38	48	0				a 1	40	0	25	0	16
14	37	44	0				a 1	*39	13	*0	0	30
15	*15	43	0				c 1	40	44	0	0	22
16	0	42	0				c 1	39	59	0	61	32
17	0	42	0				c 1	39	66	0	66	38
18	0	42	0				c 2	39	66	0	69	38
19	* 0	41	0				c 2	41	66	0	69	38
20	0	40	0				c 3	a 60	a 67	0	65	41
21	0	40	0				c 6	a 60	a 67	34	66	41
22	0	40	0				c 7	a 60	*68	62	63	42
23	0	38	0				c 4	a 60	66	*64	55	42
24	0	* 37	0				0	a 60	65	63	*62	42
25	0	36	0				0	a 60	68	64	62	42
26	0	36	0				0	*60	70	65	62	41
27	0	36	0				0	59	70	64	60	42
28	c10	36	0				*0	59	*66	63	22	42
29	c50	37	0				0	60	66	60	0	c42
30	c50	37	0		----------		*0	62	66	63	0	c42
31	c50	----------	0		----------		----------	64	----------	64	0	----------
Total	707	1,316	56	0	0	0	109	1,402	1,228	1,494	1,050	696
Mean	22.8	43.9	1.8	0	0	0	3.6	45.2	40.9	48.2	33.9	23.2
Ac-ft	1,400	2,610	111	0	0	0	216	2,780	2,440	2,960	2,080	1,380

Calendar year 1964: Max 75 Min 0 Mean 19.0 Ac-ft 13,770
Water year 1964-65: Max 70 Min 0 Mean 22.1 Ac-ft 15,980

* Discharge measurement or field observation of no flow made on this day.
a No gage-height record; discharge estimated.
c Indefinite stage-discharge relation.

Table 46.--1708. Surplus Canal at Cohen flume, near Salt Lake City

Location.--Lat 40°47'54", long 112°00'51", in SW¼SE¼ sec. 24, T. 1 N., R. 2 W., 0.3 mile downstream from spillway to Goggin Drain, 3.2 miles downstream from bridge on U.S. Highway 40, and 6.9 miles northwest of Salt Lake City.

Records available.--October 1963 to September 30, 1965.

Gage.--Water-stage recorder.

Extremes.--1963-65: Maximum daily discharge, about 600 cfs June 7, 8, 1964; minimum daily, 16 cfs Aug. 25, 1964.

Remarks.--Records fair. Water is diverted above the station for irrigation and to Goggin Drain and below the station to waterfowl ponds. (See fig. 5.)

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	89	41	81	175	186	133	80	158	189	a 150	144	136
2	85	46	149	165	166	126	61	*218	227	160	129	141
3	103	56	166	167	164	122	20	228	186	158	112	148
4	107	52	156	149	163	*120	20	174	198	140	108	156
5	99	51	170	144	166	121	62	185	*205	147	*90	157
6	100	49	176	132	171	120	112	253	294	126	74	434
7	101	47	151	124	185	122	147	145	316	128	129	515
8	103	42	136	*125	166	120	132	157	327	207	80	210
9	104	38	125	123	168	119	118	162	297	198	69	112
10	106	44	120	124	171	118	119	143	286	167	96	171
11	103	51	*115	127	158	120	115	128	383	170	91	254
12	106	55	114	132	153	118	116	112	430	197	106	238
13	107	67	100	126	151	124	114	83	368	200	148	178
14	98	73	94	122	149	141	114	67	*425	122	185	160
15	135	71	94	122	156	142	113	92	379	148	86	167
16	*151	70	*93	121	137	120	105	103	298	163	112	206
17	112	69	89	122	132	113	103	122	223	200	132	169
18	98	68	93	122	120	112	106	*129	130	251	157	70
19	*95	68	96	121	122	111	108	159	149	294	245	52
20	96	67	94	120	124	108	110	212	154	159	300	100
21	88	67	95	121	*122	96	139	233	178	132	339	180
22	84	66	96	121	114	92	234	186	225	166	336	186
23	87	63	119	122	115	94	304	161	143	107	110	170
24	89	*64	334	127	118	110	308	168	148	139	148	158
25	89	63	326	152	132	80	248	215	291	162	122	154
26	*91	63	318	141	131	78	238	152	245	174	123	160
27	78	64	272	133	131	80	215	126	268	120	104	131
28	53	63	310	146	135	95	180	103	*178	87	174	131
29	37	64	248	222	----------	93	162	103	150	78	114	195
30	36	67	200	208	----------	90	148	131	a 120	96	125	222
31	42	----------	185	198	----------	83	----------	167	----------	176	*125	----------
Total	2,872	1,769	4,915	4,354	4,106	3,421	4,151	4,775	7,410	4,922	4,413	5,461
Mean	92.6	59.0	159	140	147	110	138	154	247	159	142	182
Ac-ft	5,700	3,510	9,749	8,640	8,140	6,790	8,230	9,470	14,700	9,760	8,753	10,800

Calendar year 1964 : Max 600 Min 16 Mean 117 Ac-ft 85,100
Water year 1964-65: Max 515 Min 20 Mean 144 Ac-ft 104,300

* Discharge measurement made on this day.
a No gage-height record; discharge estimated.

Table 47.--1710. Jordan River at Salt Lake City

Location.--Lat 40°43'40", long 111°55'25", in SW¼SW¼ sec. 14, T. 1 S., R. 1 W., on left bank 800 ft downstream from diversion structure at head of Surplus Canal, 0.2 mile downstream from highway bridge on 21st South Street, Salt Lake City, and 2 miles downstream from Mill Creek.

Drainage area.--3,420 sq mi, approximately; (including 255 sq mi in closed basin in Cedar Valley, Utah County).

Records available.--December 1942 to September 1965. December 1942 to September 1960 in the annual series of Water-Supply Papers of the U.S. Geological Survey, with monthly summaries in WSP 1314 and 1734. October 1960 to September 1965 in Surface Water Records of Utah, published annually.

Gage.--Water-stage recorder. Datum of gage is 4,220.73 ft above mean sea level, datum of 1929.

Average discharge.--22 years (1943-65), 139 cfs (101,600 acre-ft per year).

Extremes.--Maximum discharge during year, 207 cfs June 8; no flow for part of the day on Sept. 6, 7. Maximum combined discharge during year (Jordan River and Surplus Canal), 1,160 cfs June 14; minimum daily, 187 cfs Dec. 5.

1942-65: Maximum discharge, 384 cfs June 3, 1944; maximum gage height, 5.75 ft June 26, 1952; no flow on several days in 1952, 1962-65 (entire flow of Jordan River diverted to Surplus Canal). Maximum combined discharge (Jordan River and Surplus Canal), 1,820 cfs June 7, 1952; minimum daily, 89 cfs June 23, 1961.

Remarks.--Records good except those for period of no gage-height record, which are fair. Flow is completely regulated since reconstruction in May 1952 of the Surplus Canal diversion dam 800 ft upstream (fig. 5). Flow is affected by gates and pumps at outlet of Utah Lake. Many diversions above station for irrigation, industrial, and municipal water supplies. See table 44 for records of discharge for Surplus Canal; see the following page for records of the combined discharge.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*117	118	* 56	116	*116	* 88	*113		* 96	153	173	*130
2	116	*122	32	113	114	89	112		110	150	*165	131
3	128	119	37	113	101	91	112	a 13	116	149	154	134
4	122	119	.1	112	106	91	111		159	148	154	133
5	121	119	.1	110	97	91	104		162	150	148	138
6	123	116	45	107	101	91	90	a 25	121	150	137	48
7	123	117	90	107	97	91	91	a 23	171	144	128	93
8	126	117	103	105	94	91	93		190	142	124	125
9	126	107	109	104	97	89	92		*149	137	119	117
10	128	96	109	104	95	91	91	a 13	160	128	116	115
11	128	102	115	106	92	92	91		134	131	132	104
12	131	101	112	106	92	90	91		.3	138	127	99
13	129	99	106	104	91	93	92	a 72	37	138	134	113
14	125	105	107	103	91	93	91	120	*140	138	143	136
15	123	102	*108	*103	* 89	*111	* 89	126	161	*137	138	*136
16	*118	101	107	102	87	135	88	127	143	140	*142	150
17	113	*101	103	101	110	134	87	*129	139	150	141	157
18	112	100	103	101	126	132	85	135	160	144	131	148
19	114	98	103	101	128	131	84	114	155	162	144	147
20	117	99	102	100	131	133	87	107	138	179	169	154
21	117	99	103	101	133	132	a 50	141	129	161	58	155
22	116	97	102	101	135	131	a 13	137	140	153	47	155
23	117	97	85	102	131	117	*a 15	130	134	148	162	152
24	113	96	25	105	106	96		69	134	139	146	150
25	115	96	3.2	106	92	126		96	128	144	140	150
26	117	96	25	104	92	127		125	77	146	137	145
27	115	95	47	104	93	127	a 13	107	72	137	132	136
28	114	96	64	110	90	129		102	112	137	130	114
29	115	96	110	93	----------	125		102	117	134	131	158
30	120	90	121	120	----------	119		101	*153	141	134	161
31	121	----------	*119	120	----------	116	(*) ----------	96	----------	173	128	----------
Total	3,720	3,116	2,451.4	3,284	2,927	3,392	2,063	2,314	3,837.3	4,521	4,164	3,984
Mean	120	104	79.1	106	105	109	68.8	74.6	128	146	134	133
Ac-ft	7,380	6,180	4,860	6,510	5,810	6,730	4,090	4,590	7,610	8,970	8,260	7,900

Calendar year 1964: Max 150 Min 0 Mean 98.0 Ac-ft 71,150
Water year 1964-65: Max 190 Min 0.1 Mean 109 Ac-ft 78,890

* Discharge measurement made on this day.
a No gage-height record; discharge estimated.

Table 47.--1710. Jordan River at Salt Lake City--Continued

Combined discharge, in cubic feet per second, of Jordan River and Surplus Canal at Salt Lake City, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	246	210	226	266	299	235	202	328	490	556	533	303
2	239	225	212	251	277	218	197	429	544	510	492	307
3	300	214	210	254	267	217	201	411	447	509	441	328
4	264	216	190	250	272	220	196	316	462	512	418	323
5	253	216	187	251	263	217	209	364	547	527	367	368
6	259	205	195	248	277	217	195	419	620	453	303	936
7	259	206	213	245	270	220	201	342	680	359	263	779
8	274	206	206	237	257	212	203	336	823	376	247	528
9	281	206	209	239	267	210	202	348	763	349	245	477
10	286	204	209	239	261	209	199	316	851	311	275	430
11	293	225	231	247	245	215	199	289	1,000	346	291	368
12	303	222	222	247	245	211	204	243	883	353	268	340
13	287	249	202	239	241	219	205	238	925	301	314	328
14	273	243	205	238	241	222	201	258	1,070	297	362	333
15	262	231	213	232	236	232	192	282	991	296	342	333
16	235	230	212	225	225	235	191	307	858	316	343	418
17	213	222	199	224	239	234	195	330	715	369	328	476
18	207	221	201	227	249	228	201	354	630	420	365	435
19	220	216	203	224	257	224	200	378	566	614	483	396
20	226	217	202	223	269	229	219	514	519	617	541	388
21	220	215	203	227	283	230	284	808	576	533	653	381
22	216	210	202	224	288	229	312	862	639	433	820	377
23	223	207	303	231	263	217	375	826	581	367	481	360
24	208	206	406	252	235	209	364	664	657	347	368	354
25	210	204	342	259	230	217	332	681	752	389	352	358
26	214	206	301	242	227	223	328	559	730	418	334	325
27	202	205	331	242	237	225	324	375	720	382	308	280
28	201	206	359	273	256	232	297	336	630	327	300	304
29	204	212	311	315	---------	228	289	347	524	284	307	411
30	217	213	280	317	---------	215	304	392	564	317	321	425
31	221	---------	278	317	---------	207	---------	443	---------	524	294	---------
Total	7,516	6,468	7,463	7,705	7,176	6,856	7,221	13,095	20,757	12,712	11,759	12,169
Mean	242	216	241	249	256	221	241	422	692	410	379	406
Ac-ft	14,910	12,830	14,800	15,280	14,230	13,600	14,320	25,970	41,170	25,210	23,320	24,140

Calendar year 1964: Max 1,160 Min 157 Mean 282 Ac-ft 204,900
Water year 1964-65: Max 1,070 Min 187 Mean 331 Ac-ft 239,800

Table 48.--1715 F. Diversion to Salt Lake City water supply from Mountain Dell Reservoir, near Salt Lake City

Location.--In SE¼NE¼ sec. 9, T. 1 S., R. 2 E., at Mountain Dell Dam, and 9 miles east of Salt Lake City.

Records available.--October 1963 to September 1965. Records for previous years in the files of the Salt Lake City Water Department.

Gage.--Weir at the intake to the pipeline.

Extremes.--1963-65: Maximum daily discharge, 53.8 cfs Sept. 1, 1965; no flow for long periods.

Cooperation.--Record furnished by the Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			7.6			0	0	0	9.3	23.2	0	53.8
2			9.5			0	0	0	6.5	19.3	16.4	38.7
3			16.6			0	0	0	12.4	20.1	19.2	43.7
4			16.9			0	0	0	13.6	19.8	17.5	35.7
5			16.9			0	0	0	12.2	20.3	25.0	5.4
6			4.8			0	0	0	7.0	20.9	18.6	0
7			0			0	0	0	13.6	13.8	23.4	0
8			0			0	0	0	16.4	18.7	17.4	11.8
9			0			0	0	0	7.0	26.6	35.0	0
10			0			0	0	0	.8	18.3	28.5	0
11			0			0	0	0	13.9	18.9	45.6	20.0
12			0			0	0	0	12.2	24.9	49.6	18.6
13			0			0	0	0	10.1	23.2	35.7	36.0
14			0			0	0	0	14.4	25.7	45.1	25.0
15			0			0	0	0	12.1	25.9	49.3	31.0
16			0			0	6.7	0	8.8	16.3	46.5	0
17			0			0	7.1	2.3	21.0	2.9	35.8	0
18			0			0	3.9	14.0	19.8	0	8.5	0
19			0			0	7.3	14.0	13.2	0	5.3	0
20			0			.9	0	14.0	20.9	.3	26.0	17.7
21			0			3.7	0	5.4	23.6	13.8	3.6	0
22			0			0	0	15.5	11.6	19.2	3.3	32.4
23			0			3.6	0	10.9	3.1	17.5	3.3	30.2
24			0			.4	0	0	.9	13.6	18.4	29.6
25			0			7.8	0	0	0	0	40.6	30.1
26			0			7.1	0	0	0	3.8	40.5	30.1
27			0			3.6	0	0	10.5	16.9	42.6	29.6
28			0			3.6	0	14.0	8.2	22.0	42.3	27.1
29			0			0	0	7.8	15.6	21.8	28.7	4.0
30			0		----------	0	0	4.7	0	4.2	29.3	7.3
31		----------	0		----------	0	----------	15.3	----------	1.1	44.3	----------
Total	0	0	72.3	0	0	30.7	25.0	117.9	318.7	473.0	845.3	557.8
Mean	0	0	2.33	0	0	0.99	0.83	3.80	10.6	15.3	27.3	18.6
Ac-ft	0	0	143	0	0	61	50	234	632	938	1,680	1,110

Calendar year 1964 : Max 53.5 Min 0 Mean 11.3 Ac-ft 8,210
Water year 1964-65: Max 53.8 Min 0 Mean 6.69 Ac-ft 4,850

Table 49.--1716. Parleys Creek at Suicide Rock, near Salt Lake City

Location.--Lat 40°42'25", long 111°45'20", in NE¼NE¼ sec. 26, T. 1 S., R. 1 E., at mouth of canyon about 0.1 mile upstream from Wasatch Boulevard, and 6 miles southeast of Salt Lake City.

Records available.--October 1963 to September 1965. Records for station 1715, at a site 0.7 mile upstream; August 1898 to September 1963 (monthly flow for August 1898 to September 1960, adjusted for diversion and change in reservoir contents, in U.S. Geological Survey WSP 1314 and 1734; October 1960 to September 1963 in the files of the Salt Lake City Water Department).

Gage.--Water-stage recorder. Altitude of gage is 4,710 ft (from topographic map).

Extremes.--1963-65: Maximum daily discharge, 219 cfs May 19, 1964; no flow on Oct. 27, 29, 31, Nov. 1, 2, 1963

Remarks.--Records good. Flow regulated by Mountain Dell Reservoir (capacity, about 3,400 acre-ft). Diversion to Salt Lake City (1715 F, table 48) bypasses this station. The monthly flow of Parleys Creek, adjusted for diversion and change in reservoir contents, is shown following the daily discharge table.

Cooperation.--Records for Mountain Dell Reservoir and the diversion to the Salt Lake City water supply furnished by the Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1964 to September 65

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.3	2.2	71	18	35	19	30	206	78	*31	22	2.8
2	2.3	2.3	68	15	28	17	7.3	208	58	22	25	2.8
3	2.3	2.2	80	17	27	18	8.1	204	15	8.0	8.4	2.8
4	2.3	2.2	80	16	26	18	29	192	12	6.5	6.9	2.8
5	2.3	2.2	84	16	25	18	41	102	12	6.5	4.4	3.1
6	2.3	2.2	86	*16	25	18	46	54	34	9.2	4.1	6.1
7	2.3	2.2	59	15	24	18	42	82	73	15	3.7	4.4
8	2.3	2.0	16	14	23	19	42	117	73	8.0	3.5	3.7
9	2.2	2.0	15	14	23	20	34	117	73	8.8	3.5	3.7
10	2.2	2.2	14	14	22	*20	50	113	106	6.5	3.3	3.3
11	2.2	2.3	14	14	20	20	50	98	72	7.6	3.3	3.3
12	2.2	2.3	12	14	20	19	42	85	61	7.3	3.1	3.1
13	2.2	2.3	9.2	13	17	20	43	22	78	6.5	3.5	2.9
14	2.2	2.3	11	12	18	20	50	16	66	5.0	3.3	2.8
15	2.2	2.0	12	12	17	21	46	15	61	4.4	3.1	2.8
16	2.2	2.0	12	12	17	14	37	15	*80	4.4	2.9	3.1
17	2.2	2.0	6.9	12	17	5.0	40	26	53	4.4	2.9	3.3
18	2.2	2.0	8.8	12	16	3.9	40	98	30	13	3.3	3.1
19	2.2	2.0	10	12	17	3.7	38	102	37	26	3.5	3.1
20	2.2	2.0	11	12	17	7.3	61	100	41	28	3.3	2.9
21	2.0	2.0	11	12	18	5.7	98	98	42	24	6.9	2.9
22	2.0	2.0	12	12	19	6.1	135	95	33	15	7.6	2.9
23	2.0	2.0	32	12	19	19	117	98	29	7.6	4.4	2.8
24	2.0	2.0	56	13	18	38	162	37	50	4.6	3.7	2.6
25	2.0	2.0	56	12	19	34	*170	24	77	5.0	3.5	2.6
26	2.0	2.2	44	12	19	24	179	15	61	18	3.3	2.6
27	2.0	2.2	30	12	20	16	183	53	68	*16	3.1	2.6
28	2.0	2.2	25	13	20	20	162	86	38	7.6	3.1	2.9
29	2.2	17	22	17	----------	20	156	77	39	4.4	2.9	3.1
30	2.3	*50	22	24	----------	29	177	77	36	6.9	2.9	2.8
31	2.3	----------	20	40	----------	33	----------	89	----------	8.4	3.1	----------
Total	67.6	126.5	1,009.9	459	586	563.7	2,316.1	2,721	1,586	345.6	161.5	93.7
Mean	2.18	4.22	32.6	14.8	20.9	18.2	77.2	87.8	52.9	11.1	5.21	3.12
Ac-ft	134	251	2,000	910	1,160	1,120	4,590	5,400	3,150	685	320	186

Calendar year 1964: Max 219 Min 0.7 Mean 17.7 Ac-ft 12,880
Water year 1964-65: Max 208 Min 2.0 Mean 27.5 Ac-ft 19,910

* Discharge measurement made on this day.

Monthly diversion, change in reservoir contents, and adjusted total flow, in acre-feet

		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Mountain Dell Reservoir	Contents at first of month	381	842	1,123	0	0	0	5	106	2,622	3,044	3,086	2,242	1,791
	Change in contents	+461	+281	-1,123	0	0	+5	+101	+2,516	+422	+42	-844	-451	
Diversion to Salt Lake City (1715 F)		0	0	143	0	0	61	50	234	632	938	1,680	1,110	
Parleys Creek	At Suicide Rock (1716)	134	251	2,000	910	1,160	1,120	4,590	5,400	3,150	685	320	186	
	Adjusted total flow	595	532	1,020	910	1,160	1,190	4,740	8,150	4,200	1,660	1,160	845	

Adjusted total flow: Calendar year 1964, 20,280; water year 1964-65, 26,160

Table 50.--1719. Emigration Creek below Burr Fork, near Salt Lake City

Location.--Lat 40°47'14", long 111°42'44", in SE¼SW¼ sec. 27, T. 1 N., R. 2 E., on left bank 200 ft upstream from culvert on Utah Highway 65, about 0.3 mile below Burr Fork, and 10 miles northeast of Salt Lake City.

Drainage area.--5.9 sq mi.

Records available.--May 1963 to September 1965. Prior to May 7, 1964, infrequent readings only.

Gage.--Water-stage recorder. Altitude of gage is 5,820 ft (from topographic map). Prior to May 7, 1964, staff gage at the site about 0.2 mile upstream at different datum.

Extremes.--1963-65: Maximum daily discharge, 45 cfs Apr. 23, 1965; minimum daily recorded, 0.2 cfs Aug. 30, Sept. 12, 1963.

Remarks.--Records fair except those for periods of doubtful or no gage-height record, which are poor. No diversions above the station except for local domestic use.

Cooperation.--Gage-height record furnished by the Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4		a 1.0	a 0.8	a 2.4		14	32	a 10	* 3.2	1.5	1.1
2	.5		a .8	a .6	a 2.0		19	a 38	10	3.1	1.5	1.1
3	.5			a .6	a 1.6	a 2.0	a 25	40	a 9.5	3.1	a 1.5	1.1
4	.6			a 1.0	a 1.6		a 20	a 32	a 9.5	2.9	a 1.5	1.1
5	.6			a 1.2	a 2.0		18	26	a 9.0	2.4	a 1.5	1.1
6	.6			a 1.4	a 2.0		16	* 24	a 9.0	2.4	1.3	a 1.2
7	.6			* 1.4	a 2.0		17	20	a 8.5	2.6	1.3	1.3
8	.5			a 1.4	a 2.0	2.7	16	19	a 8.5	2.6	1.3	1.3
9	.6				a 2.0	2.7	16	17	a 8.2	2.6	1.2	1.3
10	.6				a .8	2.9	15	17	a 8.0	2.4	1.3	1.0
11	.6				a 1.0	3.1	14	17	a 8.0	2.2	1.2	a 1.0
12	* .6	a 0.8			a 1.4	3.2	13	16	a 8.0	2.0	1.2	a 1.0
13	.8				a 1.4	3.1	a 12	16	a 8.0	2.0	1.3	1.0
14	.6				a 1.2	3.1	a 12	16	a 8.0	2.2	1.3	.9
15	.6		a .6		a .6	3.2	a 12	18	7.7	2.0	1.4	.9
16	.6			a 1.2	a .8	3.4	a 13	20	7.4	2.2	1.3	1.4
17					a 1.0	3.6	a 14	20	* 7.4	2.2	1.5	1.4
18					a 1.2	3.6	a 15	20	6.8	2.2	1.8	1.3
19					a 1.2	3.2	18	20	6.3	2.3	1.8	1.1
20					a 1.0	3.2	28	* 19	5.5	2.3	1.5	1.2
21					a .8	3.1	38	19	d 5.0	2.3	2.3	1.2
22					a 1.2	2.9	a 42	18	d 4.5	1.9	2.2	1.2
23	a .8				a 1.2	2.7	a 45	16	d 4.0	1.8	1.4	1.1
24					a 1.6	2.7	a 43	16	d 4.0	1.6	1.3	1.1
25				a .6	a 2.0	3.6	a 41	15	d 4.0	1.8	1.3	1.0
26		a 1.0		a .4	a 2.2	2.6	39	14	d 3.5	1.6	1.2	.9
27		a 1.2		a .4	a 2.7	2.7	32	13	d 3.5	* 1.5	1.2	.9
28		a 1.2	a .8	a .4	a 2.9	2.9	33	12	3.6	1.5	1.1	1.0
29		a 1.2	a 1.0	a .6	----------	3.1	d 29	11	a 3.5	1.4	1.1	1.1
30		a 1.4	a 1.2	a .8	----------	4.3	d 30	a 11	a 3.5	1.4	1.1	1.2
31		----------	a 1.0	a 1.4	----------	7.4	----------	a 10	----------	1.9	1.1	----------
Total	21.3	26.0	20.8	32.2	43.8	93.0	699	602	202.4	67.6	43.5	33.5
Mean	0.69	0.87	0.67	1.04	1.56	3.00	23.3	19.4	6.75	2.18	1.40	1.12
Ac-ft	42	52	41	64	87	184	1,390	1,190	401	134	86	66

Calendar year 1964: Max 40 Min - Mean 3.73 Ac-ft 2,710
Water year 1964-65: Max 45 Min - Mean 5.16 Ac-ft 3,740

* Discharge measurement made on this day.
a No gage-height record; discharge estimated.
d Doubtful gage-height record; discharge estimated.

Table 51.--1719 A. Diversion from Emigration Tunnel Springs to the Salt Lake City water supply

Location.--In NE¼NE¼ sec. 11, T. 1 S., R. 1 E., on left bank of Emigration Creek 0.8 mile upstream from east boundary of Hogle Garden Zoo, and about 5 miles southeast of Salt Lake City.

Records available.--July 1906 to September 1965. Monthly discharge only for July 1906 to September 1960 in WSP 1314 and 1734. Records for October 1960 to September 1963 in the files of the Salt Lake City Water Department.

Gage.--Two-foot Cipolletti weir.

Extremes.--1963-65: Maximum daily discharge, 3.2 cfs May 11-17, 1964; minimum daily, 0.4 cfs Mar. 16-31, 1965.

Remarks.--The following tabulation shows the amount of water from Emigration Tunnel Springs that reached Emigration Creek without diversion. These amounts are included in the record for station 1720 (table 52).

Month	Acre-ft	Month	Acre-ft	Month	Acre-ft
October	2	February	0	June	12
November	0	March	75	July	12
December	0	April	22	August	12
January	0	May	13	September	9

Total for calendar year, 360 acre-ft; for water year, 157 acre-ft.

Cooperation.--Record furnished by the Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.6	2.4	2.3	2.0	2.4	2.6	1.6	2.3	2.7	2.7	2.7	2.7
2	2.6	2.4	2.3	2.0	2.4	2.6	1.6	2.3	2.7	2.7	2.7	2.7
3	2.6	2.4	2.3	2.0	2.4	2.6	1.6	2.3	2.7	2.7	2.7	2.7
4	2.6	2.4	2.3	2.2	2.4	2.6	1.6	2.5	2.7	2.7	2.7	2.7
5	2.6	2.4	2.3	2.2	2.4	2.6	1.9	2.5	2.7	2.7	2.7	2.7
6	2.6	2.4	2.3	2.2	2.4	2.6	1.9	2.5	2.7	2.7	2.7	2.7
7	2.6	2.4	2.3	2.2	2.4	2.6	1.9	2.5	2.7	2.7	2.7	2.7
8	2.6	2.4	2.2	2.2	2.4	2.6	1.9	2.5	2.7	2.7	2.7	2.5
9	2.6	2.4	2.2	2.2	2.4	0.5	1.9	2.5	2.7	2.7	2.7	2.5
10	2.6	2.4	2.2	2.2	2.4	0.5	1.9	2.5	2.7	2.7	2.7	2.5
11	2.6	2.4	2.2	2.2	2.4	0.5	1.9	2.5	2.7	2.7	2.7	2.5
12	2.6	2.4	2.2	2.2	2.4	0.5	1.9	2.5	2.7	2.7	2.7	2.5
13	2.5	2.4	2.2	2.2	2.4	0.5	1.9	2.5	2.7	2.7	2.7	2.5
14	2.5	2.4	2.2	2.2	2.4	0.5	1.9	2.5	2.7	2.7	2.7	2.5
15	2.5	2.4	2.2	2.2	2.6	0.5	1.9	2.5	2.7	2.7	2.7	2.5
16	2.5	2.4	2.2	2.2	2.6	0.4	1.9	2.5	2.7	2.7	2.7	2.5
17	2.5	2.2	2.2	2.2	2.6	0.4	1.9	2.5	2.7	2.7	2.7	2.5
18	2.5	2.2	2.2	2.2	2.6	0.4	1.9	2.6	2.7	2.7	2.7	2.5
19	2.5	2.2	2.2	2.2	2.6	0.4	2.0	2.6	2.7	2.7	2.7	2.5
20	2.5	2.2	2.2	2.2	2.6	0.4	2.0	2.6	2.7	2.7	2.7	2.4
21	2.5	2.2	2.2	2.2	2.6	0.4	2.0	2.6	2.7	2.7	2.7	2.4
22	2.5	2.2	2.0	2.2	2.6	0.4	2.0	2.6	2.7	2.7	2.7	2.4
23	2.5	2.2	2.0	2.2	2.5	0.4	2.0	2.6	2.7	2.7	2.7	2.4
24	2.5	2.2	2.0	2.2	2.5	0.4	2.0	2.6	2.7	2.7	2.7	2.4
25	2.5	2.2	2.0	2.2	2.5	0.4	2.0	2.6	2.7	2.7	2.7	2.4
26	2.5	2.2	2.0	2.2	2.5	0.4	2.0	2.7	2.7	2.7	2.7	2.4
27	2.4	2.2	2.0	2.2	2.5	0.4	2.3	2.7	2.7	2.7	2.7	2.4
28	2.4	2.2	2.0	2.2	2.5	0.4	2.3	2.7	2.7	2.7	2.7	2.4
29	2.4	2.2	2.0	2.2	----------	0.4	2.3	2.7	2.7	2.7	2.7	2.4
30	2.4	2.2	2.0	2.2	----------	0.4	2.3	2.7	2.7	2.7	2.7	2.4
31	2.4	----------	2.0	2.2	----------	0.4	----------	2.7	----------	2.7	2.7	----------
Total	78.2	69.2	66.9	67.6	69.4	30.7	58.2	78.9	81.0	83.7	83.7	75.3
Mean	2.52	2.31	2.16	2.18	2.48	1.99	1.94	2.55	2.70	2.70	2.70	2.51
Ac-ft	155	137	133	134	138	61	115	156	161	166	166	149

Calendar year 1964 : Max 3.2 Min 1.2 Mean 2.20 Ac-ft 1,600
Water year 1964-65 : Max 2.7 Min 0.4 Mean 2.31 Ac-ft 1,670

Table 52.--1720. Emigration Creek near Salt Lake City

Location.--Lat 40°45'00", long 111°48'45", in SW¼NW¼ sec. 11, T. 1 S., R. 1 E., at east boundary of Hogle Garden Zoo near mouth of canyon, 4 miles southeast of Salt Lake City.

Drainage area.--18 sq mi, approximately.

Records available.--June 1900 to September 1965. Monthly discharge only for October 1898 to September 1960, published in WSP 1314 and 1734. Records for October 1960 to September 1963 in the files of the Salt Lake City Water Department.

Extremes.--1900-1965: Maximum daily discharge, 156 cfs Apr. 26, 1952; minimum, not determined.

Remarks.--Records good. No regulation. Water is diverted by pipeline from Emigration Tunnel Springs upstream from the station for the Salt Lake City water supply (table 51).

Cooperation.--Gage-height record furnished by the Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.1	2.3	4.8	4.5	9.4	8.8	25	51	18	* 8.8	5.6	3.5
2	1.1	2.3	3.8	2.5	8.8	6.3	41	52	18	8.2	5.3	3.5
3	a 1.1	2.3	3.2	3.5	8.4	6.3	35	48	18	8.2	5.0	3.5
4	a 1.1	2.3	3.2	4.0	8.4	7.6	33	45	18	8.2	4.5	3.2
5	a 1.1	2.0	2.0	4.2	7.9	8.8	31	43	18	7.6	4.5	3.5
6	1.1	2.0	2.0	4.2	7.9	8.4	29	39	18	7.4	4.2	4.8
7	a 1.2	1.8	1.3	4.5	7.9	8.8	24	34	18	7.1	4.2	4.5
8	1.3	a 1.8	1.1	3.0	7.9	9.4	22	33	18	5.8	4.0	4.8
9	1.6	1.8	1.1	2.7	7.6	9.8	24	31	17	5.6	3.5	4.5
10	1.8	1.6	1.1	3.2	6.6	9.8	22	34	17	5.6	* 3.2	4.2
11	2.3	2.0	1.6	3.5	4.5	10	22	29	17	5.6	3.5	4.2
12	* 1.8	2.0	1.6	3.5	5.0	10	22	27	17	5.6	3.2	4.0
13	1.1	2.3	1.3	3.8	6.0	11	20	26	17	6.0	3.5	3.5
14	1.0	a 2.3	1.3	3.2	6.8	11	20	27	16	5.8	3.2	3.0
15	1.1	a 2.3	1.6	3.2	6.6	11	20	29	15	5.8	3.5	3.0
16	a 1.1	a 2.3	2.0	3.8	4.5	10	21	29	* 15	6.0	3.2	3.2
17	1.1	2.3	1.8	3.5	5.8	11	24	30	14	6.8	3.5	3.5
18	1.3	a 2.3	1.3	3.5	6.0	8.8	24	31	14	6.6	3.8	3.5
19	a 1.3	2.3	1.3	3.2	6.0	7.6	31	31	13	7.1	4.0	3.5
20	1.3	1.8	1.6	3.5	6.3	11	41	31	12	6.8	4.0	3.8
21	a 1.3	a 1.8	1.8	3.5	6.6	9.4	d 45	31	12	6.6	4.5	3.8
22	a 1.3	a 2.0	a 1.8	3.5	6.8	10	52	30	11	6.0	6.0	3.5
23	1.3	2.0	1.8	3.8	7.1	11	* 61	29	11	5.8	5.3	3.5
24	2.0	2.3	a 1.8	3.8	7.4	11	53	28	12	5.6	5.0	3.5
25	2.3	2.5	a 1.8	4.0	7.6	9.8	52	30	12	5.6	4.8	3.5
26	a 2.0	3.0	1.8	1.8	7.9	13	49	33	12	5.3	4.5	3.5
27	1.6	3.2	a 2.5	1.8	8.2	12	44	33	12	5.3	4.5	3.5
28	1.8	a 3.2	3.8	3.2	8.8	12	43	25	9.8	4.8	4.5	3.5
29	1.6	a 3.5	4.5	4.8	----------	12	43	21	9.8	4.5	4.2	3.5
30	2.5	3.5	4.2	6.3	----------	13	49	19	9.4	5.3	4.0	3.5
31	2.3	----------	4.2	7.9	----------	16	----------	19	----------	6.3	3.8	----------
Total	45.9	69.1	69.0	115.4	198.7	314.6	1,022	998	439.0	195.7	130.5	110.5
Mean	1.48	2.30	2.23	3.72	7.10	10.1	34.1	32.2	14.6	6.31	4.21	3.68
Ac-ft	91	137	137	229	394	624	2,030	1,980	871	388	259	219

Calendar year 1964: Max 87 Min - Mean 7.55 Ac-ft 5,480
Water year 1964-65 : Max 61 Min 1.0 Mean 10.2 Ac-ft 7,360

* Discharge measurement made on this day.
a No gage-height record; discharge estimated.
d Doubtful gage-height record; discharge estimated.

Table 53.--1721. Emigration Creek below 1300 East, at Salt Lake City

Location.--Lat 40°43'49", long 111°51'18", in NE¼SE¼ sec. 17, T. 1 S., R. 1 E., about 500 ft downstream from 1300 East Street in Salt Lake City.

Drainage area.--19 sq mi, approximately.

Records available.--October 1963 to September 1965.

Gage.--Water-stage recorder.

Extremes.--1963-65: Maximum daily discharge, 70 cfs (estimated) May 16, 1964; no flow for long periods.

Remarks.--Records good except those for periods of doubtful or no gage-height record, which are poor.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			a 2.5	a 2.5	a 7.0	5.7	a 15	42	15	8.6	5.0	3.0
2			a 2.2	a 2.0	a 7.0	5.2	a 25	45	14	8.3	5.2	2.8
3	a 1.0		1.6	a 2.5	a 6.0	5.7	a 32	44	14	7.3	5.2	2.8
4			1.7	a 3.0	a 6.0	7.0	a 28	42	14	6.7	4.7	2.3
5	1.0		1.2	a 3.0	a 6.0	7.6	a 25	45	14	6.3	4.4	3.0
6	1.0		1.0	a 3.0	a 6.0	7.9	a 21	37	14	a 6.0	4.2	5.7
7			a .9	a 3.0	a 5.5	7.9	a 20	35	12	a 5.5	3.8	3.8
8			.8	a 2.5	a 5.5	7.9	a 19	34	12	a 5.0	3.8	3.8
9				a 2.0	a 5.5	8.3	a 20	32	12	a 4.5	4.7	3.3
10		a 1.0		a 2.0	a 5.0	8.3	a 20	30	13	a 4.5	3.4	3.2
11				a 2.5	a 4.0		a 19	29	13	a 4.0	3.3	3.0
12			a .7		a 4.0		19	28	16	a 4.0	3.6	3.0
13					a 4.5		19	27	14	4.0	3.4	2.8
14					a 5.0	a 8.5	19	27	13	4.4	3.3	2.8
15					a 5.0		18	27	12	4.2	3.0	3.0
16					a 3.5		18	27	12	4.4	3.3	4.2
17			.6		5.0		20	29	*12	5.2	3.0	4.2
18	a 1.0		.6		*5.0	a 7.0	20	30	12	6.7	5.0	3.4
19			.8	a 3.0	4.7	a 6.0	22	30	11	5.7	3.8	3.3
20		a .9	.9		5.0	a 7.0	27	29	11	7.3	3.4	3.3
21		a .9	1.0		5.2	a 8.0	34	24	11	7.0	13	3.6
22		a .9	a 1.0		5.7	a 8.5	37	24	10	6.7	6.3	2.6
23		.9	a 1.0		5.2	a 8.5	* 54	24	9.6	5.2	4.0	2.8
24		a 1.0	a 1.0		5.0	a 9.0	46	24	12	5.2	3.6	2.8
25		a 1.2	a 1.0		5.2	a 10	45	20	11	5.7	3.3	2.8
26		a 1.4	a 1.0	2.0	6.0	11	40	19	12	5.4	3.2	2.8
27		a 1.6	a 1.5	2.0	7.0	11	38	19	11	4.4	3.2	2.7
28		a 1.8	a 2.0	2.5	6.3	9.3	36	19	9.6	* 4.0	2.8	3.8
29		a 2.0	a 2.5	3.0	----------	8.9	38	17	9.3	4.2	2.3	3.4
30		a 2.0	a 2.5	4.0	----------	10	41	16	* 8.9	a 4.5	3.0	3.4
31		----------	a 2.5	5.0	----------	11	----------	16	----------	a 4.7	3.0	----------
Total	31.0	33.6	37.4	88.5	150.8	256.2	835	891	364.4	169.6	127.2	97.4
Mean	1.00	1.12	1.21	2.85	5.39	8.26	27.8	28.7	12.1	5.47	4.10	3.25
Ac-ft	61	67	74	176	299	508	1,660	1,770	723	336	252	193

Calendar year 1964 : Max 70 Min 0 Mean 5.71 Ac-ft 4,140
Water year 1964-65: Max 54 Min - Mean 8.44 Ac-ft 6,120

* Discharge measurement made on this day.
a No gage-height record; discharge estimated.

Table 54.--1722. Red Butte Creek at Fort Douglas, near Salt Lake City

Location.--Lat 40°46'50", long 111°48'20", in NW¼ sec.35, T.1 N., R.1 E., on right bank 0.35 mile upstream from dam forming Red Butte Reservoir, 1½ miles northeast of Fort Douglas, and 5 miles east of Salt Lake City post office.

Drainage area.--7.25 sq mi.

Records available.--October 1963 to September 1965. Figures of monthly discharge for January 1942 to September 1963, collected by Corps of Engineers, U. S. Army, available in files of Salt Lake City District office, Geological Survey.

Gage.--Digital water-stage recorder and concrete Parshall flume. Altitude of gage is 5,400 ft (from topographic map). Prior to Dec. 3, 1964, graphic water-stage recorder at same site and datum.

Extremes.--Maximum discharge during year, 23 cfs Apr. 23 (gage height, 1.94 ft); minimum, 1.2 cfs Dec. 12, 13.
1963-65: Maximum discharge, 31 cfs May 13, 1964 (gage height, 2.43 ft); minimum, 0.5 cfs Oct. 7, 12, 1963.

Remarks.--Records good. No regulation or diversion above station. Discharge measurements generally made twice a month. Most of flow is collected in reservoir below station and used for water supply of Fort Douglas. This drainage basin has been designated as a hydrologic bench mark.

Rating table (gage height, in feet, and discharge, in cubic feet per second)

0.3	1.2	1.0	8.0
.5	2.7	1.5	15
.7	4.6	2.0	23

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.5	1.8	2.8	3.2	4.2	3.3	4.6	22	11	5.1	3.3	2.3
2	1.6	1.9	2.7	3.0	4.0	3.3	5.6	22	11	5.1	3.2	2.2
3	1.6	1.7	2.3	3.0	3.9	3.3	5.6	22	11	4.9	3.2	2.2
4	1.6	1.7	2.1	2.8	4.0	3.3	6.0	20	10	4.8	3.1	2.1
5	1.5	1.6	2.0	2.7	4.1	3.4	6.6	20	9.8	4.7	3.0	2.2
6	1.5	1.6	1.8	2.7	4.2	3.4	6.4	18	9.4	4.6	2.9	3.4
7	1.5	1.6	1.6	2.7	3.9	3.4	6.7	17	9.2	4.4	2.7	2.7
8	1.5	1.6	1.7	2.5	3.7	3.5	6.7	17	8.9	4.3	2.7	2.6
9	1.6	1.6	1.7	2.5	3.7	3.5	6.8	16	8.7	4.2	2.6	2.5
10	1.6	1.7	1.6	2.4	3.5	3.5	7.1	16	8.5	4.2	2.7	2.3
11	1.6	2.0	1.7	2.4	3.3	3.6	7.0	16	8.2	4.2	2.6	2.2
12	1.6	1.9	1.6	2.4	3.3	3.8	6.8	16	8.3	4.0	2.5	2.2
13	1.5	1.9	1.5	2.2	3.2	3.7	6.8	16	8.1	3.9	2.5	2.2
14	1.5	1.8	1.5	2.1	3.2	3.8	7.0	17	7.6	3.8	2.5	2.2
15	1.6	1.6	1.6	2.1	3.1	3.8	7.3	17	7.4	3.7	2.5	2.2
16	1.6	1.6	1.5	2.1	3.0	3.9	7.6	17	7.3	3.9	2.5	2.7
17	1.6	1.6	1.4	2.1	3.0	3.8	8.4	17	7.1	3.9	2.5	2.6
18	1.6	1.6	1.5	2.1	2.9	3.7	9.0	17	6.8	4.3	2.9	2.5
19	1.6	1.6	1.6	2.1	2.9	3.8	10	16	6.6	4.6	2.9	2.5
20	1.6	1.6	1.6	2.2	3.0	3.7	13	16	6.4	4.0	2.7	2.4
21	1.6	1.7	1.8	2.3	3.1	3.7	15	15	6.2	3.8	4.2	2.4
22	1.6	1.7	2.0	2.2	3.2	3.7	18	15	6.0	3.6	3.8	2.3
23	1.6	1.7	4.9	2.2	3.1	3.5	21	15	5.9	3.6	3.1	2.3
24	1.6	1.7	7.0	2.4	3.1	3.5	21	15	6.2	3.4	2.7	2.3
25	1.6	1.9	6.1	2.4	3.1	3.4	21	14	6.1	3.6	2.5	2.4
26	1.6	2.1	4.9	2.4	3.3	3.3	21	13	6.4	3.5	2.5	2.4
27	1.6	2.0	4.7	2.4	3.5	3.4	21	13	6.0	3.3	2.5	2.2
28	1.6	2.0	4.1	2.5	3.5	3.5	20	12	5.7	3.3	2.4	2.3
29	1.7	2.1	3.8	2.9	------	3.3	21	12	5.6	3.1	2.3	2.4
30	2.1	2.0	3.6	3.9	------	3.5	22	12	5.4	3.3	2.3	2.3
31	1.9	------	3.4	4.4	------	3.9	------	11	------	3.7	2.3	------
Total	49.8	52.9	82.1	79.3	96.0	110.2	346.0	502	230.8	124.8	86.1	71.5
Mean	1.61	1.76	2.65	2.56	3.43	3.56	11.5	16.2	7.69	4.03	2.78	2.38
Ac-ft	99	105	163	157	190	219	686	996	458	248	171	142

Calendar year 1964: Max 28 Min 0.8 Mean 3.73 Ac-ft 2,710
Water year 1964-65: Max 22 Min 1.4 Mean 5.02 Ac-ft 3,630

Peak discharge (base, 15 cfs).--Apr. 23 (1200) 23 cfs (1.94 ft).

Table 55.--1722 A. Diversion from Red Butte Creek to Fort Douglas water supply

Location.--SW¼NW¼ sec. 35, T. 1 N., R. 1 E., at dam forming Red Butte Reservoir, 1.2 miles northeast of Fort Douglas, and 4 miles northeast of Salt Lake City.

Records available.--October 1963 to September 1965. Records for 1942 to 1963 in the files of the Post Engineer, Corps of Engineers, Fort Douglas.

Remarks.--Water diverted from Red Butte Reservoir. Record includes seepage of about 0.1 cfs below the dam.

Cooperation.--Record furnished by the Post Engineer, Corps of Engineers, Fort Douglas.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.8	0.7	0.6	0.4	0.3	0.3	0.3	0.4	1.0	1.7	1.0	1.2
2	1.0	.7	.6	.4	.3	.3	.3	.4	.8	1.7	1.4	1.3
3	.5	.8	.6	.3	.3	.3	.3	.4	.8	1.7	2.1	1.2
4	.3	.8	.6	.4	.3	.3	.3	.9	.8	1.3	1.8	1.1
5	1.0	.8	.6	.4	.3	.3	.3	.4	1.6	1.2	2.0	1.0
6	1.1	.7	.7	.4	.3	.3	.3	.4	1.3	2.0	1.7	.6
7	1.1	.7	.6	.4	.3	.3	.3	.4	1.4	2.0	1.6	.7
8	1.1	.7	.6	.4	.3	.3	.3	.4	2.1	2.2	1.0	.9
9	.9	.7	.7	.4	.3	.3	.3	.4	2.1	1.7	1.6	.9
10	.8	.7	.6	.3	.3	.7	.3	.4	2.5	1.4	1.7	.9
11	.9	.7	.8	.3	.3	.4	.3	.4	1.8	1.2	1.6	.8
12	.9	.7	.7	.3	.3	.2	.3	.4	1.0	2.0	1.7	.6
13	.6	.7	.7	.4	.3	.2	.3	.4	1.0	2.0	1.7	.6
14	.6	.7	.4	.4	.3	.2	.3	.4	1.8	1.7	1.3	.5
15	.6	.7	.4	.4	.3	.3	.3	.4	1.6	1.6	1.0	.5
16	.6	.7	.5	.3	.3	.3	.3	.4	1.4	1.7	1.6	.5
17	.5	.7	.5	.3	.3	.3	.3	.6	1.3	1.3	1.6	.6
18	.5	.7	.5	.4	.3	.3	.3	.6	1.2	1.0	1.7	.6
19	.5	.7	.4	.4	.3	.4	.3	1.1	1.6	1.7	1.6	.5
20	.5	.6	.4	.4	.3	.3	.4	.8	1.2	1.8	1.0	.5
21	.6	.5	.4	.3	.3	.3	.4	.6	2.1	1.8	.9	.6
22	.5	.5	.4	.4	.3	.3	.4	.6	1.9	1.6	.7	.6
23	.6	.7	.4	.3	.3	.3	.3	.4	2.1	1.5	1.2	.6
24	.7	.7	.4	.3	.3	.3	.4	.4	1.6	1.4	1.3	.6
25	.8	.7	.4	.4	.3	.3	.3	.4	1.1	1.3	1.3	.5
26	.7	.5	.4	.3	.3	.3	.3	.5	1.2	1.8	1.3	.5
27	.7	.6	.4	.3	.3	.3	.4	.8	1.0	1.8	1.2	.7
28	.7	.6	.4	.3	.3	.3	.4	.8	1.6	1.9	1.1	.7
29	.7	.6	.4	.3	----------	.3	.4	.8	1.6	1.7	.8	.6
30	.7	.6	.4	.3	----------	.3	.4	.4	1.6	1.5	1.2	.6
31	.7	----------	.4	.3	----------	.3	----------	.4	----------	1.4	1.3	----------
Total	22.2	20.2	15.9	10.9	8.4	9.6	9.8	16.1	44.1	50.6	43.0	21.5
Mean	0.72	0.67	0.51	0.35	0.30	0.31	0.33	0.52	1.47	1.63	1.39	0.72
Ac-ft	44	40	32	22	17	19	19	32	87	100	85	43

Calendar year 1964: Max - Min - Mean 0.99 Ac-ft 724
Water year 1964-65: Max 2.5 Min 0.2 Mean 0.75 Ac-ft 540

Table 56.--1722.2 Red Butte Creek below Red Butte Reservoir, near Salt Lake City

Location.--Lat 40°46'30", long 111°47'25", in NE¼SW¼ sec. 34, T. 1 N., R. 1 E., about 0.3 mile below spillway of reservoir, 0.9 mile northeast of Fort Douglas, and 4 miles northeast of Salt Lake City.

Drainage area.--7.95 sq mi.

Records available.--October 1963 to September 1965. Records for 1942 to 1963 in the files of the Post Engineer, Corps of Engineers, Fort Douglas.

Gage.--Water-stage recorder and a concrete Parshall flume.

Extremes.--1963-65: Maximum daily discharge, 28 cfs May 16, 17, 1964; no flow for long periods.

Remarks.--Flow regulated by storage in Red Butte Reservoir. Water is diverted to Fort Douglas water supply from the reservoir.

Cooperation.--Record furnished by the Post Engineer, Corps of Engineers, Fort Douglas.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	2.3	2.6	2.5	3.9	2.0	9.8	3.7	1.6	1.5
2			0	2.3	2.6	2.6	4.1	2.0	9.7	3.6	1.4	1.5
3			0	2.3	2.6	2.6	4.5	1.9	9.5	3.5	1.4	1.5
4			0	2.2	2.8	2.6	5.6	1.7	9.3	3.4	1.4	1.5
5			0	2.1	2.8	2.7	5.8	1.7	7.6	3.4	1.2	1.5
6			0	2.1	2.8	2.8	5.8	1.7	7.4	3.2	.9	2.6
7			0	2.1	2.8	2.8	5.8	1.6	7.3	3.1	.9	1.8
8			0	2.1	2.8	2.6	5.8	1.6	7.2	2.9	.8	1.9
9			1.2	2.1	2.8	2.6	5.9	1.5	7.0	2.8	.8	1.9
10			1.2	2.1	2.8	2.2	6.1	1.4	6.9	2.7	.8	1.8
11			1.2	2.1	2.8	2.8	6.1	1.4	6.8	2.6	.7	1.7
12			1.2	2.1	2.8	2.9	6.0	1.5	7.3	2.4	.7	1.6
13			1.2	2.1	2.7	2.9	6.0	1.5	7.2	2.3	.7	1.5
14			1.2	2.1	2.7	2.9	6.0	1.5	6.6	2.2	.7	1.5
15			1.2	2.1	2.7	2.9	6.0	1.5	6.1	2.2	.7	1.5
16			1.2	2.1	2.7	2.9	6.2	1.5	5.9	2.2	.7	1.5
17			1.2	2.1	2.7	2.9	6.8	1.5	5.7	2.1	.7	1.5
18			1.2	2.1	2.7	2.9	8.5	1.5	5.4	2.1	.8	1.5
19			1.2	2.1	2.7	3.1	9.1	1.5	4.8	2.5	.9	1.5
20			1.2	2.1	2.7	3.1	9.5	1.5	4.5	2.4	2.2	1.5
21			1.4	2.1	2.6	3.1	11	1.5	4.4	2.3	2.6	1.5
22			5.2	2.1	2.6	3.1	12	1.5	4.3	2.2	2.8	1.5
23			6.7	2.1	2.5	3.1	14	1.4	4.2	2.2	2.0	1.4
24			6.3	2.2	2.5	2.9	21	1.3	4.1	2.2	1.7	1.4
25			3.3	2.2	2.5	2.9	20	1.3	4.8	2.2	1.6	1.4
26			2.2	2.2	2.5	2.8	20	1.3	5.3	2.0	1.6	1.4
27			2.2	2.2	2.5	2.8	19	1.3	5.3	1.9	1.6	1.4
28			2.3	2.8	2.5	2.7	20	1.2	4.8	1.5	1.6	1.3
29			2.3	3.8	----------	2.7	20	1.1	4.5	1.4	1.5	1.3
30			2.3	3.8	----------	3.1	20	1.0	4.3	1.7	1.5	1.3
31		----------	2.3	2.6	----------	3.6	----------	9.9	----------	1.8	1.5	----------
Total	0	0	50.9	70.8	74.8	88.1	300.5	458.9	188.0	76.7	40.0	46.7
Mean	0	0	1.64	2.28	2.67	2.84	10.0	14.8	6.27	2.47	1.29	1.56
Ac-ft	0	0	101	140	148	175	596	910	373	152	79	93

Calendar year 1964: Max 28 Min 0 Mean 2.56 Ac-ft 1,860
Water year 1964-65: Max 21 Min 0 Mean 3.82 Ac-ft 2,770

Table 57.--1723. Red Butte Creek at 1600 East, at Salt Lake City

Location.--Lat 44°44'50", long 111°51'22", in NE¼SW¼ sec. 9, T. 1 S., R. 1 E., in Miller Park, at 1050 South and 1600 East.

Drainage area.--8.9 sq mi.

Records available.--October 1963 to September 1964, February to September 1965.

Gage.--Water-stage recorder.

Extremes.--1963-65: Maximum daily discharge, 23 cfs May 15, 1964; no flow for long periods.

Remarks.--Records fair.

Discharge, in cubic feet per second, February 19 to September 30, 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					-	a 1.6	1.3	a 1.6	6.8	* 2.6	1.5	0.2
2					-	a 1.6	a 2.0	a 1.6	6.4	a 2.4	1.3	.3
3					-	a 1.6	a 2.5	a 1.6	6.0	a 2.2	.7	.3
4					(*) -	a 1.6	a 3.0	1.5	5.6	a 2.0	.5	.4
5					-	a 1.8	a 3.5	2.0	5.6	a 2.0	.2	.6
6	(*)				-	1.8	a 4.0	1.7	6.0	1.9	.2	1.3
7					-	1.8	a 4.5	1.4	5.6	1.6	a .2	.8
8					-	a 1.8	4.6	1.7	5.2	1.5	.3	.6
9					-	a 1.8	4.2	1.4	5.2	1.5	.6	.7
10					-	1.5	4.6	1.2	5.2	1.0	.2	.6
11					-	* 1.9	a 4.5	1.2	4.9	1.0	.3	.5
12					-	1.8	a 4.5	1.0	* 1.0	1.2	a .2	.4
13	(*)				-	1.6	a 4.5	1.0	4.6	.7	.2	.5
14					-	1.6	a 4.5	1.3	4.6	.6	a .1	.4
15					-	1.8	a 4.5	1.2	a 4.4	.5	a 0	.4
16					-	1.6	a 4.5	1.3	a 4.4	1.3	* 0	1.0
17					-	1.6	a 5.0	1.2	a 4.2	1.1	0	1.0
18					-	1.5	a 6.0	1.1	a 4.0	2.2	1.3	1.0
19					1.5	1.9	a 7.0	9.0	a 3.6	2.2	1.8	.9
20					1.6	1.9	a 8.0	*7.6	a 3.4	1.9	1.3	.8
21					1.6	2.0	a 9.0	1.1	a 3.2	1.4	7.0	1.2
22					1.9	1.8	1.4	1.2	a 3.2	1.1	2.0	1.1
23					1.8	1.5	* 2.1	1.1	a 3.0	.9	1.2	.7
24					1.6	1.2	1.5	1.3	a 3.0	.8	.8	.7
25					1.6	1.1	1.6	1.1	a 3.5	1.8	.7	.6
26					a 1.6	1.0	1.7	1.0	a 4.0	1.6	.4	.7
27					a 1.6	1.2	1.5	9.0	a 4.0	1.1	.2	.4
28					a 1.6	1.9	1.4	8.6	a 3.5	.8	0	.8
29					----------	1.3	1.4	7.6	a 3.2	.3	.5	.9
30					----------	1.2	* 1.6	6.8	a 3.0	.5	.4	.9
31		----------			----------	1.3	----------	6.8	----------	1.3	.3	----------
Total					16.4	49.6	238.2	373.4	139.3	43.0	24.4	20.7
Mean					1.64	1.60	7.94	12.0	4.64	1.39	0.79	0.69
Ac-ft					33	98	472	741	276	85	48	41

Calendar year	: Max	Min	Mean	Ac-ft	
The period	: Max 21	Min 0	Mean 4.04	Ac-ft	1,790

* Discharge measurement or field observation of no flow made on this day.
a No gage-height record; discharge estimated.

Table 58.--1724. City Creek above Wasatch Drive, near Salt Lake City

Location.--Lat 40°47'33", long 111°52'35", in SW¼NE¼ sec. 30, T. 1 N., R. 1 E., about 0.2 mile upstream from Wasatch Drive and 1.2 miles northeast of Utah State Capitol Building.

Drainage area.--18.5 sq mi.

Records available.--October 1963 to September 1965.

Gage.--Water-stage recorder and weir.

Extremes.--1963-65: Maximum daily discharge, 74 cfs May 23, 1964; minimum daily 0.4 cfs Sept. 1, 5-17, 1964.

Remarks.--Records good. Water is diverted 2.9 miles upstream from the gage to the City Creek treatment plant. (See table 59.) The treated water is stored in the Pleasant Valley reservoir 1.4 miles upstream from the gage and carried past the gage in pipelines.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	1.1	1.9	1.5	1.6	1.8	2.2	22	51	15	a 4.5	1.2
2	.6	1.1	1.8	1.4	1.5	1.8	2.6	22	54	10	a 4.5	1.4
3	.6	1.1	1.6	1.5	1.5	2.2	2.4	28	49	9.4	a 4.5	1.2
4	.5	1.2	1.5	1.5	1.5	1.9	2.6	30	50	6.8	a 3.5	1.1
5	.6	1.5	1.2	1.5	1.6	2.1	3.0	34	47	5.8	a 2.0	1.1
6	.6	1.5	1.2	1.5	1.8	1.9	2.8	* 31	49	7.1	a 2.0	1.8
7	.8	1.4	1.1	1.5	1.6	2.1	3.5	29	48	4.6	a 1.5	3.7
8	.8	1.4	1.2	1.2	1.4	2.1	3.2	27	47	3.7	a 1.5	4.3
9	.8	1.2	1.2	1.2	1.4	2.1	3.0	25	49	2.2	* 1.3	3.0
10	.8	1.4	1.1	1.2	1.2	2.1	3.0	22	48	1.8	3.2	1.6
11	.8	1.6	1.1	1.2	.9	* 2.2	3.0	22	51	1.6	2.2	1.5
12	.8	1.5	1.1	1.2	.8	1.9	3.0	21	a 50	1.6	1.8	1.5
13	.8	1.8	.8	1.2	.9	1.8	3.0	19	a 49	1.6	1.2	1.5
14	.8	1.5	.9	1.2	1.1	1.6	3.0	20	* 48	1.5	1.2	1.4
15	.8	1.4	1.1	1.2	.9	1.6	3.0	23	45	1.6	1.4	1.4
16	1.1	1.4	.9	1.2	1.1	1.6	2.6	25	45	2.1	.9	1.6
17	.9	1.2	b .9	1.2	1.1	1.6	2.8	28	44	4.3	1.1	1.8
18	.8	1.1	b .9	1.2	1.2	1.5	2.8	34	41	6.0	1.8	1.8
19	.8	.9	.9	1.2	1.4	1.5	2.8	47	37	1.9	2.1	1.6
20	* .8	.9	.9	1.2	1.4	1.5	3.0	51	31	1.8	2.1	1.5
21	.8	.9	.9	1.2	1.5	1.5	4.8	54	33	1.8	3.9	1.5
22	.9	.9	1.2	1.1	1.6	1.5	7.1	60	30	1.8	3.7	2.2
23	.9	.9	1.9	1.1	1.8	1.5	14	64	22	1.6	2.2	1.6
24	.8	.9	3.2	1.1	1.6	1.5	20	63	24	1.9	1.9	1.9
25	.8	.9	2.4	1.1	1.6	1.5	22	62	40	1.4	1.5	1.6
26	1.1	1.1	1.9	1.4	1.8	1.5	24	58	43	a 1.5	2.1	1.5
27	1.5	1.4	2.1	1.5	1.9	1.5	25	50	41	a 1.2	1.9	1.6
28	1.1	1.6	1.8	1.4	1.9	1.5	24	39	35	a 1.2	1.5	1.8
29	1.6	1.6	1.6	1.5	----------	1.5	22	41	23	a 1.5	1.4	2.1
30	1.6	1.5	1.6	1.6	----------	1.8	16	41	15	a 3.5	1.6	1.6
31	1.2	----------	1.6	1.8	----------	1.8	----------	45	----------	a 4.5	1.4	----------
Total	27.4	37.9	43.5	40.8	39.6	54.0	236.2	1,137	1,239	112.3	67.4	53.4
Mean	0.88	1.26	1.40	1.32	1.41	1.74	7.87	36.7	41.3	3.62	2.17	1.78
Ac-ft	54	75	86	81	79	107	468	2,250	2,460	223	134	106

Calendar year 1964: Max 74 Min 0.4 Mean 6.97 Ac-ft 5,050
Water year 1964-65: Max 64 Min 0.5 Mean 8.46 Ac-ft 6,120

* Discharge measurement made on this day.
a No gage-height record; discharge estimated.
b Stage-discharge relation affected by ice.

Table 59.--1724 A. Diversion to City Creek treatment plant from City Creek, near Salt Lake City

Location.--Lat 40°49'54", long 111°49'50", in the SW¼SW¼ sec. 15, T. 1 N., R. 1 E., at City Creek treatment plant and 4 miles northeast of Utah State Capitol Building.

Records available.--October 1963 to September 1965. Records for previous years in the files of the Salt Lake City Water Department.

Extremes.--1963-65: Maximum daily discharge, 26 cfs on several days May to July 1965; minimum daily, 2.5 cfs June 26, 1965.

Remarks.--Except for small infrequent spills from the Pleasant Valley reservoir the record shows the amount of water delivered to the Salt Lake City water system from the water treatment plant.

Cooperation.--Record furnished by the Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.0	7.6	7.4	6.5	7.6	8.8	9.6	20	17	22	12	11
2	8.0	7.8	6.8	6.4	7.4	8.7	11	22	22	23	12	11
3	8.3	7.4	6.8	6.5	7.4	8.4	10	22	21	23	12	11
4	9.3	7.4	6.7	6.4	7.4	8.2	11	22	21	26	15	11
5	8.0	7.3	6.7	6.2	8.1	8.1	11	14	22	22	15	11
6	7.9	7.1	6.5	6.4	8.2	8.2	10	12	16	23	15	11
7	8.0	7.1	6.5	6.5	7.9	8.3	10	12	24	23	15	9.0
8	8.0	7.1	6.5	6.5	7.7	8.1	10	12	23	24	15	9.0
9	7.9	7.3	6.5	6.4	7.7	8.2	10	12	20	24	15	10
10	7.9	7.1	6.5	6.4	7.4	8.2	10	12	16	24	13	9.9
11	7.9	7.1	6.5	6.5	7.3	8.1	10	12	14	23	14	10
12	7.8	7.3	6.5	6.4	7.3	8.2	10	15	16	22	14	10
13	7.8	7.1	6.5	6.4	7.1	8.1	9.9	17	18	22	14	10
14	7.6	7.1	6.3	6.2	7.1	7.9	9.9	14	20	21	14	10
15	7.7	7.1	6.5	6.4	6.8	7.9	11	14	21	21	14	10
16	7.7	7.1	6.3	6.4	6.8	8.0	11	14	18	21	14	11
17	7.7	7.1	5.4	6.5	6.8	8.0	12	22	16	20	14	10
18	7.7	6.8	6.0	6.8	7.0	8.2	12	20	17	18	14	10
19	7.6	6.8	6.2	6.8	7.4	8.0	14	26	20	19	14	10
20	7.7	6.8	6.2	6.8	7.7	7.9	17	23	21	20	13	10
21	7.6	6.8	6.0	7.0	8.4	7.7	20	20	16	19	14	10
22	7.8	6.8	6.2	6.8	8.7	7.7	20	20	18	19	13	10
23	7.8	6.8	8.5	6.8	8.7	7.6	12	20	26	19	13	9.9
24	7.6	6.8	11	7.0	8.5	7.6	7.7	19	15	18	13	9.8
25	7.6	7.1	9.0	6.8	8.4	7.4	7.7	12	3.1	18	13	9.8
26	7.3	6.8	8.2	6.7	8.5	7.4	8.8	13	2.5	18	12	9.6
27	7.6	7.0	7.6	6.5	9.1	7.4	9.4	19	5.4	18	12	10
28	7.6	6.7	7.4	6.8	9.1	7.3	9.4	18	7.4	17	12	9.6
29	7.6	6.8	7.0	7.0	----------	7.1	19	16	19	16	12	10
30	8.0	6.5	6.8	6.8	----------	7.4	18	17	22	11	12	9.8
31	7.4	----------	6.5	7.8	----------	7.9	----------	17	----------	12	12	----------
Total	242.4	211.6	213.5	205.4	217.5	246.0	351.4	528	517.4	626	416	303.4
Mean	7.82	7.05	6.89	6.63	7.77	7.94	11.7	17.0	17.2	20.2	13.4	10.1
Ac-ft	481	420	423	407	431	488	697	1,050	1,030	1,240	825	602

Calendar year 1964: Max 25 Min 4.3 Mean 10.1 Ac-ft 7,340
Water year 1964-65: Max 26 Min 2.5 Mean 11.2 Ac-ft 8,090

Table 60.--1725. City Creek near Salt Lake City

Location.--Lat 40°47'33', long 111°52'35", in SW¼NE¼ sec. 30, T. 1 N., R. 1 E., about 0.2 mile upstream from Wasatch Drive and 1.2 miles northeast of Utah State Capitol Building.

Records available.--October 1898 to September 1965. Monthly discharge only for October 1898 to September 1960 published in WSP 1314 and 1734. October 1960 to September 1963 in the files of the Salt Lake City Water Department.

Extremes.--1899-1909, 1911-50, 1963-65: Maximum daily discharge, 163 cfs May 30, 1921; minimum daily, 1.2 cfs, Oct. 17, 1934.

Remarks.--Record is the combined discharge of City Creek (1724, table 58) and the diversion to the City Creek treatment plant (1724 A, table 59), which is carried in pipelines past the gage. The record herein is equivalent to records for previous years computed from the flow of City Creek at a site about three-quarters of a mile downstream.

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.6	8.7	9.3	8.0	9.2	11	12	42	68	37	16	12
2	8.6	8.9	8.6	7.8	8.9	10	14	44	76	33	16	12
3	8.9	8.5	8.4	8.0	8.9	11	12	50	70	32	16	12
4	9.8	8.6	8.2	7.9	8.9	10	14	52	71	33	18	12
5	8.6	8.8	7.9	7.7	9.7	10	14	48	69	28	17	12
6	8.5	8.6	7.7	7.9	10	10	13	43	65	30	17	13
7	8.8	8.5	7.6	8.0	9.5	10	14	41	72	28	16	13
8	8.8	8.5	7.7	7.7	9.1	10	13	39	70	28	16	13
9	8.7	8.5	7.7	7.6	9.1	10	13	37	69	26	16	13
10	8.7	8.5	7.6	7.6	8.6	10	13	34	64	26	16	12
11	8.7	8.7	7.6	7.7	8.2	10	13	34	65	25	16	12
12	8.6	8.8	7.6	7.6	8.1	10	13	36	66	24	16	12
13	8.6	8.9	7.3	7.6	8.0	9.9	13	36	67	24	15	12
14	8.4	8.6	7.2	7.4	8.2	9.5	13	34	68	22	15	11
15	8.5	8.5	7.6	7.6	7.7	9.5	14	37	66	23	15	11
16	8.8	8.5	7.2	7.6	7.9	9.6	14	39	63	23	15	13
17	8.6	8.3	6.3	7.7	7.9	9.6	15	50	60	24	15	12
18	8.5	7.9	6.9	8.0	8.2	9.7	15	54	58	24	16	12
19	8.4	7.7	7.1	8.0	8.8	9.5	17	73	57	21	16	12
20	8.5	7.7	7.1	8.0	9.1	9.4	20	74	52	22	15	12
21	8.4	7.7	6.9	8.2	9.9	9.2	25	74	49	21	18	12
22	8.7	7.7	7.4	7.9	10	9.2	27	80	48	21	17	12
23	8.7	7.7	10	7.9	10	9.1	26	84	48	21	15	12
24	8.4	7.7	14	8.1	10	9.1	28	82	39	20	15	12
25	8.4	8.0	11	7.9	10	8.9	30	74	43	19	14	11
26	8.4	7.9	10	8.1	10	8.9	33	71	46	20	14	11
27	9.1	8.4	9.7	8.0	11	8.9	34	69	46	19	14	12
28	8.7	8.3	9.2	8.2	11	8.8	33	57	42	18	14	11
29	9.2	8.4	8.6	8.5	----------	8.6	41	57	42	18	13	12
30	9.6	8.0	8.4	8.4	----------	9.2	34	58	37	14	14	11
31	8.6	----------	8.1	9.6	----------	9.7	----------	62	----------	16	13	----------
Total	269.8	249.5	255.9	246.2	255.9	298.3	590	1,665	1,756	740	479	359
Mean	8.70	8.32	8.25	7.94	9.14	9.62	19.7	53.7	58.5	23.9	15.5	12.0
Ac-ft	535	495	508	488	508	592	1,170	3,300	3,480	1,470	950	712

Calendar year 1964 : Max 94 Min 5.6 Mean 16.8 Ac-ft 12,190
Water year 1964-65: Max 84 Min 6.3 Mean 19.6 Ac-ft 14,210

Table 61.--1726. Jordan River below Cudahy Lane, near Salt Lake City

Location.--Lat 40°50'41", long 111°56'59", in SE¼ sec. 4, T. 1 N., R. 1 W., about 0.2 mile downstream from county bridge on Cudahy Lane, and 6.5 miles northwest of Salt Lake City.

Drainage area.--3,490 sq mi, approximately; (including 255 sq mi in closed basin in Cedar Valley, Utah County).

Records available.--October 1963 to September 1965.

Gage.--Water-stage recorder.

Extremes.--1963-65: Maximum daily discharge, 348 cfs June 11, 1965; minimum daily, 39 cfs Nov. 19, 1964.

Remarks.--Records fair. Many diversions above the station for irrigation, municipal, and industrial water supplies and diversions below the station for waterfowl ponds. (See fig. 5.)

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	129	124	166	138	160	125	c166	*262	250	224	212	154
2	128	129	145	137	155	126	c166	278	*256	*208	224	155
3	128	129	149	137	148	128	166	280	211	a194	210	152
4	129	126	135	134	139	*134	179	266	221	a188	194	148
5	125	128	125	138	129	132	218	275	230	a185	182	148
6	125	126	126	132	143	134	198	119	233	a185	173	259
7	125	125	158	131	144	128	179	154	267	a174	161	c293
8	125	126	123	*135	126	132	184	124	316	a172	154	c275
9	128	127	128	130	131	134	183	142	317	a162	156	c192
10	128	110	*125	131	132	135	186	156	340	a153	165	138
11	126	122	135	137	121	137	225	190	348	a156	161	132
12	128	117	125	140	151	139	195	175	192	a158	159	128
13	129	143	110	140	123	141	187	142	213	a158	165	*127
14	126	124	110	131	132	142	178	*208	*280	*158	162	145
15	123	113	*120	131	*126	144	171	223	284	158	166	152
16	121	110	121	131	120	168	167	209	296	164	168	168
17	117	112	117	131	124	154	178	216	283	181	170	178
18	114	110	114	130	140	151	177	264	285	184	184	177
19	114	108	118	131	149	150	183	302	290	230	209	168
20	117	108	116	131	143	152	192	310	285	235	205	173
21	119	108	116	131	142	c150	249	*342	284	218	248	174
22	119	106	117	135	144	c150	216	337	277	194	206	173
23	118	106	166	135	145	c140	305	339	267	184	*168	170
24	118	*105	*235	140	140	c120	238	*331	*267	174	170	170
25	116	106	183	*137	129	c150	270	223	249	184	160	174
26	*120	106	132	140	129	c150	263	238	301	193	170	177
27	121	109	146	130	126	c150	250	231	219	184	166	170
28	120	109	122	153	135	c150	246	248	248	164	159	179
29	120	115	135	176	----------	c150	245	240	208	160	155	188
30	137	122	145	153	----------	c150	242	234	236	166	156	188
31	134	----------	142	161	----------	c150	----------	245	----------	213	152	----------
Total	3,827	3,509	4,205	4,267	3,826	4,396	6,202	7,303	7,953	5,661	5,490	5,225
Mean	123	117	136	138	137	142	207	236	265	183	177	174
Ac-ft	7,590	6,960	8,340	8,460	7,590	8,720	12,300	14,490	15,770	11,230	10,890	10,360

Calendar year 1964 : Max 294 Min 81 Mean 133 Ac-ft 96,270
Water year 1964-65 : Max 348 Min 105 Mean 169 Ac-ft 122,700

* Discharge measurement made on this day.
a No gage-height record; discharge estimated.
c Indefinite stage-discharge relation.

Table 62.--1726.3 Goggin Drain near Magna

Location.--Lat 40°49'00", long 112°06'04", in NE¼SE¼ sec. 18, T. 1 N., R. 2 W., about 7 miles downstream from Surplus Canal wasteway, 3.3 miles north of Saltair, and 7.2 miles north of Magna.

Records available.--October 1963 to September 1965.

Gage.--Water-stage recorder.

Extremes.--1963-65: Maximum daily discharge, 438 cfs June 27, 1965; no flow Jan. 15-19, 1964, result of freezeup.

Remarks.--Records good except those less than 1 cfs which are fair. The drain carries natural drainage and surplus water spilled from canals from the area. (See fig. 5.)

Discharge, in cubic feet per second, water year October 1964 to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16	14	14	5.7	10	4.0	1.4	109	150	122	183	44
2	14	12	16	4.8	8.2	3.2	1.5	104	176	154	183	44
3	14	13	14	4.8	7.6	2.6	1.3	119	198	131	164	46
4	12	12	10	4.5	7.3	2.9	2.2	111	235	118	153	46
5	11	11	6.0	4.8	6.8	2.9	5.1	113	176	115	126	44
6	11	12	6.0	4.5	7.3	2.9	3.5	155	157	109	105	94
7	10	16	5.4	4.3	9.7	2.6	3.8	*117	238	84	111	159
8	9.3	16	5.1	2.6	8.5	2.4	2.4	119	331	21	82	230
9	11	16	4.8	2.9	7.6	2.4	2.1	134	*338	19	70	176
10	8.9	17	5.1	3.5	6.0	2.4	2.6	119	327	18	77	78
11	12	20	5.4	3.5	6.2	2.4	3.5	115	336	17	72	8.5
12	14	19	4.5	3.8	4.8	2.1	4.5	106	377	16	40	8.5
13	14	27	3.8	3.5	4.8	2.1	4.0	77	382	82	11	8.5
14	10	22	4.5	3.5	6.0	2.1	4.5	24	338	79	26	8.9
15	10	20	6.0	3.2	5.4	2.1	3.8	26	434	14	44	*8.6
16	*11	22	2.9	3.2	4.3	1.7	3.5	44	*350	13	12	10
17	12	23	2.9	3.2	5.7	1.9	2.9	46	300	15	9	118
18	11	23	2.6	3.2	5.4	1.7	1.9	54	238	14	14	206
19	12	24	2.6	3.2	6.0	1.9	2.2	66	189	161	11	165
20	9.3	20	4.3	3.2	6.2	1.5	2.9	71	147	274	13	89
21	4.3	18	4.3	3.2	6.2	1.7	3.5	90	147	113	104	9.8
22	2.9	17	4.0	2.6	4.5	1.7	3.2	138	*180	66	364	10
23	2.4	*18	8.0	3.2	5.4	1.7	55	130	246	73	174	13
24	3.5	17	22	5.7	4.8	1.5	164	146	249	27	38	14
25	2.1	16	19	5.1	4.3	1.5	138	231	373	28	62	11
26	1.9	14	14	5.1	4.0	1.5	132	*168	390	*69	55	10
27	1.9	15	15	5.4	4.3	1.5	126	141	438	100	52	9.6
28	1.9	15	13	7.9	3.5	1.5	117	124	350	87	69	8.6
29	1.7	14	8.9	23	----------	1.5	106	118	314	47	117	8.5
30	5.4	14	8.5	18	----------	1.5	108	116	*261	15	47	9.0
31	14	----------	6.5	12	----------	1.4	----------	121	----------	98	47	----------
Total	274.5	517	249.1	167.1	170.8	64.8	1,012.3	3,352	8,365	2,299	2,635	1,695.5
Mean	8.85	17.2	8.04	5.39	5.89	2.09	33.7	108	279	74.2	85.0	56.5
Ac-ft	544	1,030	494	331	339	129	2,010	6,650	16,590	4,560	5,230	3,360

Calendar year 1964 :	Max	398	Min	0	Mean	53.6	Ac-ft	38,920
Water year 1964-65 :	Max	438	Min	1.3	Mean	57.0	Ac-ft	41,270

* Discharge measurement made on this day.

Table 63.--1726.5 Kennecott Drain near Magna

Location.--Lat 40°45'28", long 112°10'04", in SE¼SW¼ sec. 3, T. 1 S., R. 3 W., about 300 feet downstream from culvert on U.S. Highway 40, and 4.5 miles northwest of Magna.

Records available.--October 1963 to September 1965.

Gage.--Water-stage recorder.

Extremes.--1963-65: Maximum discharge 389 cfs Mar. 18, 1964 (gage height, 5.50 ft) result of break in dike of Kennecott tailings pond; maximum daily, 297 cfs Mar. 18, 1964; minimum daily, 40 cfs May 19, 1964.

Remarks.--Records good.

Discharge, in cubic feet per second, water year October 1964 to September 1965

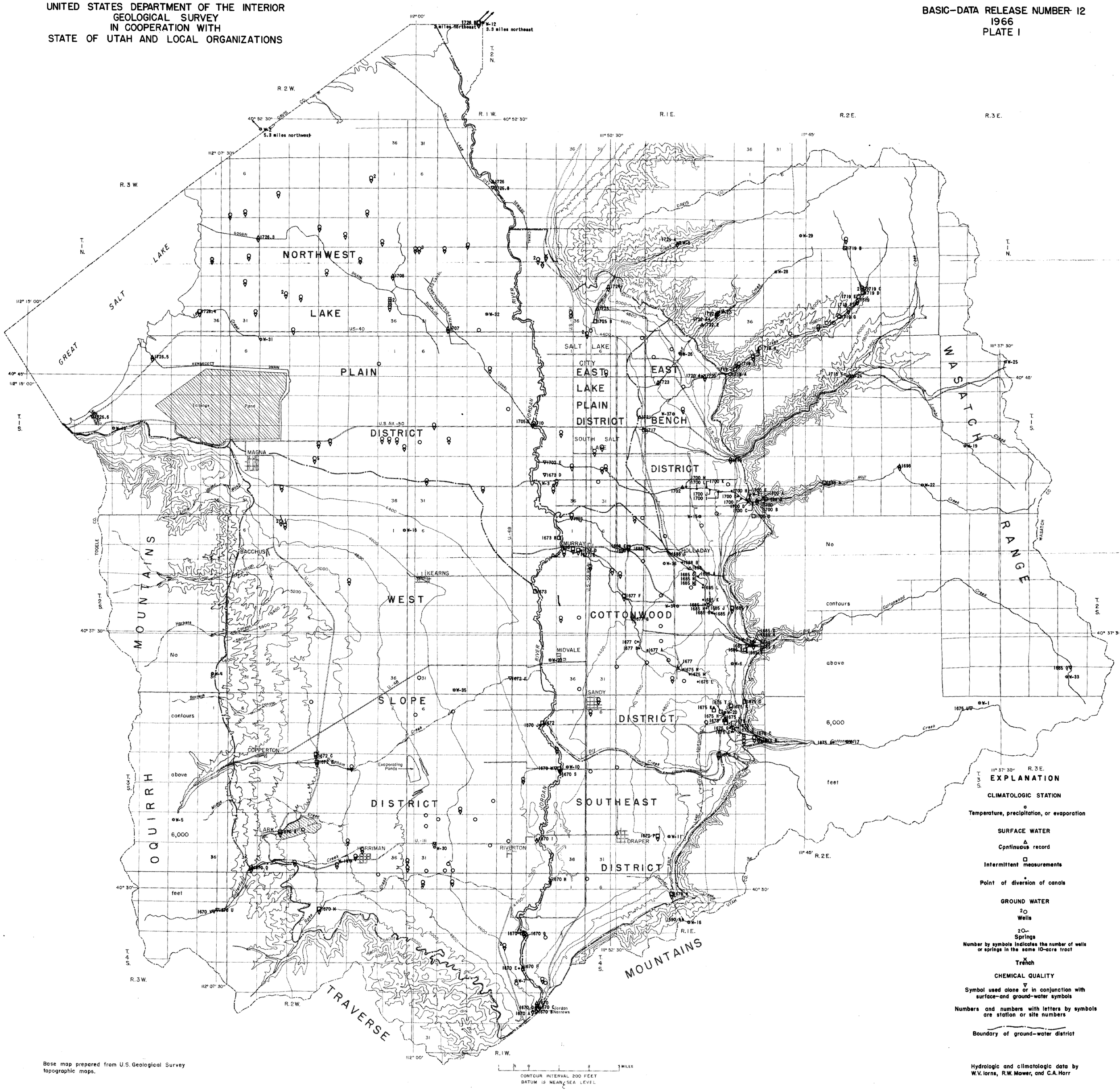
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	69	69	86	94	87	74	63	84	103	81	128	77
2	68	78	96	76	85	78	60	67	74	81	123	79
3	60	73	93	59	89	*75	63	68	70	72	114	85
4	60	67	111	77	83	76	63	75	71	79	111	82
5	73	65	79	*83	81	78	70	111	80	74	123	85
6	74	66	78	85	99	76	70	*196	76	75	124	89
7	69	73	72	81	130	74	64	151	92	69	121	170
8	74	71	70	68	100	73	70	131	93	70	93	102
9	75	72	71	76	94	72	62	156	91	70	81	97
10	79	79	76	76	79	72	62	126	101	64	85	106
11	78	87	91	78	80	67	71	87	109	77	83	108
12	72	75	81	80	95	63	70	81	97	71	79	94
13	57	102	78	81	80	68	63	105	110	74	86	84
14	*61	96	74	79	80	70	62	108	122	72	86	73
15	63	84	*74	79	87	70	60	97	103	89	89	85
16	66	80	86	78	85	70	59	68	*104	91	85	98
17	66	85	66	77	89	68	85	62	103	94	89	142
18	64	82	58	78	93	61	77	56	109	101	95	149
19	64	82	60	77	100	63	79	63	76	124	131	150
20	62	78	109	80	98	69	68	75	75	126	137	148
21	66	73	116	81	93	72	53	104	82	131	184	152
22	70	73	97	83	87	71	62	98	83	121	226	144
23	63	*74	109	84	82	70	83	77	80	102	*156	160
24	62	78	211	120	80	68	117	93	78	103	113	158
25	65	79	188	125	85	62	83	117	*90	112	90	117
26	79	93	153	103	85	73	88	129	134	114	105	94
27	76	92	112	93	76	80	99	85	158	*117	87	83
28	67	66	151	115	80	76	78	81	129	98	93	103
29	60	60	97	155	----------	63	65	123	97	73	70	154
30	67	87	70	131	----------	61	63	97	92	82	68	146
31	75	----------	77	107	----------	62	----------	101	----------	102	77	----------
Total	2,104	2,339	2,990	2,759	2,482	2,175	2,132	3,072	2,882	2,809	3,332	3,414
Mean	67.9	78.0	96.5	89.0	88.6	70.2	71.1	99.1	96.1	90.6	107	114
Ac-ft	4,170	4,640	5,930	5,470	4,920	4,310	4,230	6,090	5,720	5,570	6,610	6,770

Calendar year 1964 : Max 297 Min 40 Mean 80.4 Ac-ft 58,380
Water year 1964-65 : Max 226 Min 53 Mean 89.0 Ac-ft 64,430

* Discharge measurement made on this day.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
IN COOPERATION WITH
STATE OF UTAH AND LOCAL ORGANIZATIONS

BASIC-DATA RELEASE NUMBER 12
1966
PLATE 1



Base map prepared from U.S. Geological Survey topographic maps.

Hydrologic and climatologic data by W.V. Iorns, R.W. Mower, and C.A. Horr

MAP OF SALT LAKE COUNTY, UTAH, SHOWING LOCATION OF HYDROLOGIC AND CLIMATOLOGIC DATA-COLLECTION SITES 1965